



**A complete range of wire & cable solutions
for aerospace applications**

Issue 9 - June 2013

Symbols

Rating temperature



Flexibility



Chemical attacks



Fire performances



Smoke



Corrosivity



Electro magnetic interference



Halogen free



RoHs compliant



Arc tracking resistant



Bending Radius



WC27500



Nexans

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■ New generation of aerospace platforms require smaller, lighter and more powerful cables

- A comprehensive range of aerospace wires and cable solutions
- Products that are compliant with a range of standards worldwide
- Lighter, smaller, tougher, and more reliable wires and cables
- Abrasion-, arc-tracking-, fire-, and fluid-resistant and low maintenance
- Customized solutions and support for complex and advanced designs

The Nexans product portfolio is comprehensive covering nearly all aerospace requirements. From airframe wires and cables to fire-zone and high-temperature cables, from power feeders to coax, databus, quad Ethernet, optical fiber for IFE and sub-systems. For every application, Nexans has a solution. For special needs, like flexibility, dynamic cut-through resistance, electromagnetic interference resistance, corona resistance, we can supply products customized to specific customer requirements that can be used in various types of harnesses.

■ Comprehensive offering

Technology:

- **Insulation systems:**
 - Composite tape wrap
 - Smooth surface composite
 - Cross-linked ETFE or polyalkene/kynar extruded
 - ETFE or FEP extruded
 - PTFE extruded
- **Screen configurations:**
 - round and flat braids
 - semi conductive tapes
 - spiral shields
- **High bit rate technology**
- **New weight saving insulation for coaxial & data bus**

Capability:

- Design & Prototyping
- Testing & Qualification
- Manufacturing

Quality systems:

- AS9100 / EN9100
- ISO 9001
- ISO 14001



■ A worldwide presence supporting Commercial and Military Aerospace markets:

Industrial footprints in 3 countries:

- Elm City, (NC) USA
- Draveil, France
- Mohammedia, Morocco

I A full range of products and solutions you can trust



I Services solutions

Customized kitting

Nexans can propose customized kitting and packaging to its customers, especially for pre-cut power cables. Kits can include other components, according to customer needs and specifications.

Training modules

At the request of OEMs, harness makers and distributors, we provide custom training on our products to explain their specific performance characteristics and benefits.

Resident engineers

If a customer has issues or questions related to wires and cables, we can assign a resident engineer to work with their research department to help them make the right choice, or facilitate acceptance according to design criteria, test information and applicable standards.



Re-design to cost

In a world where size, weight and reliability are of the utmost importance, we can help suppliers, harness makers and OEMs find optimal solutions. For example, we have pioneered the use of aluminum to achieve significant weight reduction.

Dedicated customer portals

While integrating with customer portals, Nexans can also set up dedicated portals to offer customized information according to design, manufacturing and operational needs (including technical data, commercial information, specifications, and billing).

Chart A - Color identification of wires under AS22759, AS81044 & MIL-W-16878

Black	Brown	Red	Orange	Yellow	Green	Blue	Violet	Grey	White
0	1	2	3	4	5	6	7	8	9

Wires AS22759 /5 to /23 (MIL-W-22759/5 to /23)

Specification	Main insulation material	Voltage rating	Cond. type	Temp. rating °C	AWG size	WC-27500 symbol	Appl.
AS22759/5	Heavy weight extruded PTFE mineral filled	600	SPC	200	24-4	VA	O
AS22759/6	Heavy weight extruded PTFE mineral filled	600	NPC	260	24-4	WA	O
AS22759/7	Medium weight extruded PTFE mineral filled	600	SPC	200	24-4	SA	O
AS22759/8	Medium weight extruded PTFE mineral filled	600	NPC	260	24-4	TA	O
AS22759/9	Heavy weight extruded PTFE	1000	SPC	200	28-8	LE	O
AS22759/10	Heavy weight extruded PTFE	1000	NPC	260	28-8	LH	O
AS22759/11	Light weight extruded PTFE	600	SPC	200	28-8	RC	P
AS22759/12	Light weight extruded PTFE	600	NPC	260	28-8	RE	P
AS22759/13	Medium weight extruded FEP/Kynar	600	TPC	135	24-01	CA	O
AS22759/14	Light weight extruded FEP/Kynar	600	TPC	135	26-12	CB	P
AS22759/15	Light weight extruded FEP/Kynar	600	SPA	135	26-20	CC	P
AS22759/16	Medium weight extruded ETFE	600	TPC	150	24-02	TE	O
AS22759/17	Medium weight extruded ETFE	600	SPA	150	26-20	TF	O
AS22759/18	Light weight extruded ETFE	600	TPC	150	26-10	TG	P
AS22759/19	Light weight extruded ETFE	600	SPA	150	26-20	TH	P
AS22759/20	Heavy weight extruded PTFE	1000	SPA	200	28-20	TK	O
AS22759/21	Heavy weight extruded PTFE	1000	NPA	260	28-20	TL	O
AS22759/22	Light weight extruded PTFE	600	SPA	200	28-20	TM	P
AS22759/23	Light weight extruded PTFE	600	NPA	260	28-20	TN	P

Wires AS22759 /32 to /46 (MIL-W-22759 /32 to / 46)

Specification	Main insulation material	Voltage rating	Cond. type	Temp. rating °C	AWG size	WC-27500 symbol	Appl.
AS22759/32	Light weight XL-ETFE single layer	600	TPC	150	30-12	SB	P
AS22759/33	Light weight XL-ETFE single layer	600	SPA	200	30-20	SC	P
AS22759/34	Normal weight XL-ETFE dual layer	600	TPC	150	24-02	SD	O
AS22759/35	Normal weight XL-ETFE dual layer	600	SPA	200	26-20	SE	O
AS22759/41	Normal weight XL-ETFE dual layer	600	NPC	200	26-02	SM	O
AS22759/42	Normal weight XL-ETFE dual layer	600	NPA	200	26-20	SN	O
AS22759/43	Normal weight XL-ETFE dual layer	600	SPC	200	26-02	SP	O
AS22759/44	Light weight XL-ETFE single layer	600	SPC	200	28-12	SR	P
AS22759/45	Light weight XL-ETFE single layer	600	NPC	200	28-12	SS	P
AS22759/46	Light weight XL-ETFE single layer	600	NPA	200	28-20	ST	P

SPC - Silver plated copper, NPC - Nickel Plated Copper, TPC - Tin Plated Copper,

SPA - Silver Plated High Strength Copper Alloy, NPA - Nickel Plated High Strength Copper Alloy

O - Table A1 in specification AS50881 identifies products suitable for open wiring application in aircraft installations

P - Table A2 in specification AS50881 identifies products requiring additional protection in aircraft installations

A - For appliance application only

Wires AS22759 /80 to /92 & 180 to /192 (MIL-DTL-22759 /80 to /92)

Specification	Main insulation material	Voltage rating	Cond. type	Temp. rating °C	AWG size	WC-27500 symbol	Appl.	MIL smooth equivalent.
AS22759/80	Light weight composite	600	TPC	150	26-10	WB	P	/180, DB
AS22759/81	Light weight composite	600	SPA	200	26-20	WC	P	/181, DC
AS22759/82	Light weight composite	600	NPA	260	26-20	WE	P	/182, DE
AS22759/83	Normal weight composite	600	SPC	200	8-04	WF	O	/183, DF
AS22759/84	Normal weight composite	600	NPC	260	8-04	WG	O	/184, DG
AS22759/85	Normal weight composite	600	TPC	150	8-04	WH	O	/185, DH
AS22759/86	Normal weight composite	600	SPC	200	26-04	WJ	O	/186, DJ
AS22759/87	Normal Weight composite	600	NPC	260	26-04	WK	O	/187, DK
AS22759/88	Normal weight composite	600	TPC	150	26-04	WL	O	/188, DL
AS22759/89	Normal weight composite	600	SPA	200	26-20	WM	O	/189, DM
AS22759/90	Normal weight composite	600	NPA	260	26-20	WN	O	/190, DN
AS22759/91	Light weight composite	600	SPC	200	26-10	WP	P	/191, DP
AS22759/92	Light weight composite	600	NPC	260	26-10	WR	P	/192, DR

Wires AS81044 /5 to /13 (MIL-W-81044 /5 to /13)

Specification	Main insulation material	Voltage rating	Cond. type	Temp. rating °C	AWG size	WC-27500 symbol	Appl.
AS81044/5	Normal weight extruded XL polyalkene/Kynar	600	SPC	150	24-01	MD	O
AS81044/6	Normal weight extruded XL polyalkene/Kynar	600	TPC	150	24-01	ME	O
AS81044/7	Normal weight extruded XL polyalkene/Kynar	600	SPA	150	26-20	MF	O
AS81044/8	Medium weight extrud. XL polyalkene/Kynar	600	SPC	150	24-01	MG	O
AS81044/9	Medium weight extrud. XL polyalkene/Kynar	600	TPC	150	24-01	MH	O
AS81044/10	Medium weight extrud. XL polyalkene/Kynar	600	SPA	150	26-20	MJ	O
AS81044/11	Light weight extruded XL polyalkene/Kynar	600	SPC	150	30-12	MK	P
AS81044/12	Light weight extruded XL polyalkene/Kynar	600	TPC	150	30-12	ML	P
AS81044/13	Light weight extruded XL polyalkene/Kynar	600	SPA	150	30-20	MM	P

Wires MIL-W-16878 /4 to /13 (HP3 & HP4)

Specification	Main insulation material	Voltage rating	Cond. type	Temp. rating °C	AWG size	WC-27500 symbol	Appl.
MIL-W-16878/4	.010 in. extruded PTFE	600	SPC	200	32-10	HP3-EX	A
MIL-W-16878/5	.015 in. extruded PTFE	1000	SPC	200	32-10	HP3-EEX	A
MIL-W-16878/6	.006 in. extruded PTFE	250	SPC	200	32-20	HP3-ETX	A
MIL-W-16878/11	.010 in. extruded FEP	600	SPC	200	32-8	HP4-K	A
MIL-W-16878/12	.015 in. extruded FEP	1000	SPC	200	32-2	HP4-KK	A
MIL-W-16878/13	.006 in. extruded FEP	250	SPC	200	32-20	HP4-KT	A

SPC - Silver plated copper, NPC - Nickel Plated Copper, TPC - Tin Plated Copper,

SPA - Silver Plated High Strength Copper Alloy, NPA - Nickel Plated High Strength Copper Alloy

O - Table A1 in specification AS50881 identifies products suitable for open wiring application in aircraft installations

P - Table A2 in specification AS50881 identifies products requiring additional protection in aircraft installations

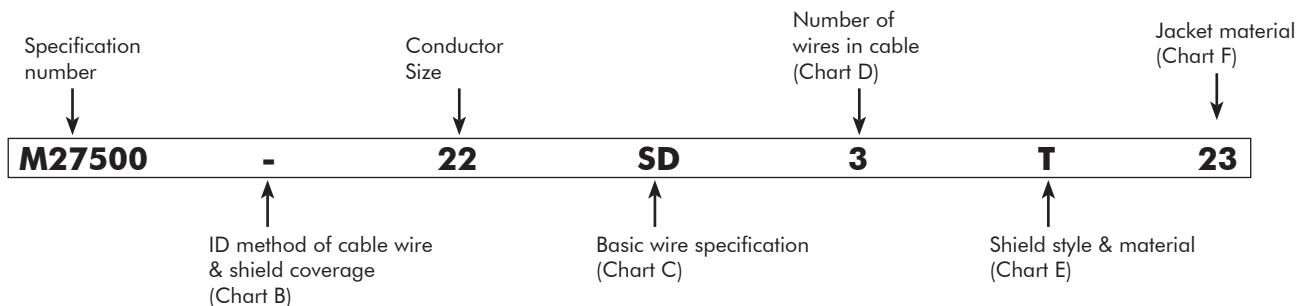
A - For appliance application only

Cable WC 27500 (MIL-C-27500)

This specification covers the requirements for cables used in aircraft and missile applications. These cables may be constructed from a variety of insulating materials having different characteristics. Nexans manufactures most of the combinations available in this specification. The cables can be obtained in configurations up to 15 conductors with just a shield, or just a jacket, or both single and double shields and jacket. Conductor colors are specified and the cable must be identified by methods described in the body of WC 27500.

Cable Designation

Cable will be identified by a combination of digits and letter (not to exceed 16), in accordance with the following:



Example: M27500-22SD3T23 = 22 AWG, 3 conductor, tin shielded 85%, white XLETTFE jacket.

Chart B - Identification method of cable wire & shield

When an unshielded cable or wire, or a cable with a minimum shield coverage of 85 percent is required, specify:	When a minimum shield coverage of 90 percent is required, specify:
- for the preferred identification method using table 3-1	C for the preferred identification method using table 3-1
F for the preferred identification method using table 3-2	H for the preferred identification method using table 3-2
A for optional identification method A, table 3-1	D for optional identification method A, table 3-1
G for optional identification method A, table 3-2	J for optional identification method A, table 3-2
B for optional identification method B, table 3-3	E for optional identification method B, table 3-3
K for optional identification method C, table 3-3	M for optional identification method C, table 3-3
L for optional identification method D	N for optional identification method D
P for optional identification method E	R for optional identification method E
S for optional identification method F	T for optional identification method F
U for color codes specified by the procuring activity	V for color codes specified by the procuring activity

Chart C - Basic wire specification

Symbol sequence	Symbol sequence	Symbol sequence	Symbol sequence
CA AS22759/13	JF MIL-DTL-25038/3	NL MIL-DTL-81381/22	TG AS22759/18
CB AS22759/14	LE AS22759/9	RA AS22759/3	TH AS22759/19
CC AS22759/15	LH AS22759/10	RB AS22759/4	TK AS22759/20
DB AS22759/180	ME AS81044/6	RC AS22759/11	TL AS22759/21
DC AS22759/181	MF AS81044/7	RE AS22759/12	TM AS22759/22
DE AS22759/182	MH AS81044/9	SA AS22759/7	TN AS22759/23
DF AS22759/183	MJ AS81044/10	SB AS22759/32	VA AS22759/5
DG AS22759/184	MK AS81044/11	SC AS22759/33	WA AS22759/6
DH AS22759/185	ML AS81044/12	SD AS22759/34	WB AS22759/80
DJ AS22759/186	MM AS81044/13	SE AS22759/35	WC AS22759/81
DK AS22759/187	MR MIL-DTL-81381/7	SM AS22759/41	WE AS22759/82
DL AS22759/188	MS MIL-DTL-81381/8	SN AS22759/42	WF AS22759/83
DM AS22759/189	MT MIL-DTL-81381/9	SP AS22759/43	WG AS22759/84
DN AS22759/190	MV MIL-DTL-81381/10	SR AS22759/44	WH AS22759/85
DP AS22759/191	MW MIL-DTL-81381/11	SS AS22759/45	WJ AS22759/86
DR AS22759/192	MY MIL-DTL-81381/12	ST AS22759/46	WK AS22759/87
E AS22759/2	NA MIL-DTL-81381/13	SV AS22759/47	WL AS22759/88
EA AS22759/1	NB MIL-DTL-81381/14	SW AS22759/48	WM AS22759/89
JA MIL-DTL-25038/1	NE MIL-DTL-81381/17	SX AS22759/49	WN AS22759/90
JB AS22759/28	NF MIL-DTL-81381/18	SY AS22759/50	WP AS22759/91
JC AS22759/29	NG MIL-DTL-81381/19	TA AS22759/8	WR AS22759/92
JD AS22759/30	NH MIL-DTL-81381/20	TE AS22759/16	
JE AS22759/31	NK MIL-DTL-81381/21	TF AS22759/17	

Chart D - Number of wires per cable

1 to 15 for shielded or shielded and jacketed cables

2 to 15 for unshielded, unjacketed or unshielded jacketed cables

Cables with 10 to 15 conductors will be limited to conductor size 12awg and smaller.

Chart E - Shield style and material

Symbol single shield style	Symbol double shield style	Shield material	Maximum temperature limit for shield material
U		No shield	-
T	V	Tin-coated copper, round	150°C (302°F)
S	W	Silver-coated copper, round	200°C (392°F)
N	Y	Nickel-coated copper, round	260°C (500°F)
F	Z	Stainless steel, round	400°C (752°F)
C	R	Nickel-coated copper 27%, round	400°C (752°F)
M	K	Silver-coated high strength copper alloy, round	200°C (392°F)
P	L	Nickel-coated high strength copper alloy, round	260°C (500°F)
G	A	Silver-coated copper, flat	200°C (392°F)
H	B	Silver-coated high strength copper alloy, flat	200°C (392°F)
*	#	Nickel-coated copper, flat	260°C (500°F)
J	D	Tin-coated copper, flat	150°C (302°F)
E	X	Nickel-coated high strength copper alloy, flat	260°C (500°F)
I	Q	Nickel-chromium alloy, flat	400°C (752°F)
\$	+	Heavy silver coated copper, round	200°C (392°F)

Chart F - Jacket materials

Single jacket symbol	Double jacket symbol	Jacket material	Temp. limit for jacket material
00	00	No jacket	-
01 ¹	51 ¹	Extruded white polyvinyl chloride (PVC)	90°C (194°F)
02 ²	52 ²	Extruded clear polyamide	105°C (221°F)
03	53	White polyamide braid impregnated with clear polyamide finisher over a polyester tape	105°C (221°F)
04	54	Polyester braid impregnated with high temperature finisher over polyester tape	150°C (302°F)
05	55	Extruded clear fluorinated ethylene propylene (FEP)	200°C (392°F)
06	56	Extruded or taped and heat sealed white polytetrafluoroethylene (PTFE)	260°C (500°F)
07	57	White polytetrafluoroethylene (PTFE) treated glass braid impregnated and coated with polytetrafluoroethylene finisher over presintered polytetrafluoroethylene tape	260°C (500°F)
08 ³	58 ³	Crosslinked white extruded polyvinylidene fluoride (PVDF)	150°C (302°F)
09	59	Extruded white fluorinated ethylene propylene (FEP)	200°C (392°F)
10 ³	60 ³	Extruded clear polyvinylidene fluoride (PVDF)	125°C (257°F)
11 ⁴	61 ⁴	Tape of natural polyimide combined with clear fluorinated ethylene propylene (FEP) wrapped and heat sealed with (FEP) outer surface	200°C (392°F)
12 ⁴	62 ⁴	Tape of natural polyimide combined with fluorinated ethylene propylene (FEP) wrapped and heat sealed with polyimide outer surface	200°C (392°F)
14	64	Extruded white ethylene-tetrafluoroethylene copolymer (ETFE)	150°C (302°F)
15	65	Extruded clear ethylene-tetrafluoroethylene copolymer (ETFE)	150°C (302°F)
16	66	Braid of aromatic polyamide with high temperature finisher over presintered polytetrafluoroethylene (PTFE) tape	200°C (392°F)
17 ⁵	67 ⁵	White extruded ethylene chlorotrifluoro-ethylene (ECTFE)	150°C (302°F)
18 ⁵	68 ⁵	Clear extruded ethylene chlorotrifluoro-ethylene (ECTFE)	150°C (302°F)
20	70	Extruded white perfluoroalkoxy (PFA)	260°C (500°F)
21	71	Extruded clear perfluoroalkoxy (PFA)	260°C (500°F)
22 ⁴	72 ⁴	Taped of polyimide combined with clear fluorinated ethylene propylene (FEP) wrapped and heat sealed with opaque polyimide outer surface	200°C (392°F)
23	73	White, cross linked, extruded, modified, ethylene tetrafluoroethylene copolymer (XLETFE)	200°C (392°F)
24	74	Tape layer of white polytetrafluoroethylene (PTFE) wrapped over a tape layer of natural polyimide combined with fluoropolymer heated and fused	260°C (500°F)
25	75	Smooth surface tape layer of white polytetrafluoroethylene (PTFE) wrapped over a tape layer of natural polyimide combined with fluoropolymer heated and fused	260°C (500°F)
26	76	Extruded, white, low fluoride, crosslinked modified, ethylene-tetrafluoroethylene copolymer (XLETFE)	200°C (392°F)

¹ Polyvinyl chloride materials shall not be used for aerospace applications.

² Jacket material 02 is not to be used for cables having a diameter of 0.251 inch or greater.

³ Jacket materials 08, 58, 10 & 60 are not to be used for cables having a diameter of 0.401 inch or greater.

⁴ Not for Naval Air Systems Command usage.

⁵ Inactive for new design.

Hook-up wires for Civil, Military aircraft and helicopters

Voltage rating: 600 Volts RMS / Maximum operating frequency: 2000 Hz

Specification	Description	Maximum operating temperature					Arc tracking resistant	Single core	Multi-core	Screened	Sheathed	Page
		150	180	210	200	260						
ABS 0949 AD AWG 24 to 4	- Light weight wires - Nickel copper clad aluminium - UV Laser printable		●				●	●				28
ABS 0949 AD AWG 3 to 000	- Arc tracking resistant - Light weight wires - Nickel aluminium wires		●									30
ABS 1354 ADA, ADB, ADC, ADD	- Light weight wires - Nickel copper clad aluminium	●					●	●	●			32
ABS 1356	- UV laser printable - Nickel copper clad aluminium	●					●	●	●	●	●	36
EN 2267-010 A DR	- UV laser printable - Light weight wires - Composite insulation				●	●	●					38
EN 2267-009 DRB, DRC, DRD	- Light weight wires - Composite insulation				●	●			●			40
EN 2714-013 MLA, MLB, MLC, MLD	- UV laser printable - Light weight wires - Composite insulation			●	●	●	●	●	●	●	●	42
EN 2714-014 MME, MMF, MMG	- UV laser printable - Light weight wires - Composite insulation			●	●				●	●	●	44
EN2266-008 DRP - DRT - DRQ	- DR Multicores jacketed - UV Laser printable - Light weight wires			●		●			●		●	46
EN2713-012 MNA - MNB - MNC MND	- DR Multicores - Shielded jacketed - Silver plated screen - UV Laser printable - Light weight wires			●		●	●	●	●	●	●	48
VG 95218-20 type H FX 5301	- Flexible light weight wires - Silver plated conductors	●					●	●				50
VG 95218-22 type E VG 95218-23 type D FX 5303	- Single core and multicore	●					●	●	●	●	●	52
MIL-W-16878/4 to 28 MIL-DTL-81381/7 to 22	- Aerospace composite wires (see MIL-SPEC product selection catalogue)	●		●	●			●				-
B080	Bombardier XLETFE wire & cables constructions ranging from thin wall to large walls constructions, tin - silver - nickel plating, aluminum - copper - high strength & ultra high strength copper-alloy, round - flat shields.	●		●				●	●	●	●	54
BMS 13-60	Boeing composite wire & cables constructions ranging from thin wall to large walls constructions, tin - silver - nickel plating, aluminum - copper - high strength & ultra high strength copper-alloy, round - flat shields.	●		●	●	●	●	●	●	●	●	58

Specification	Description	Maximum operating temperature					Arc tracking resistant	Single core	Multi-core	Screened	Sheathed	Page
		150	180	210	200	260						
WC 27500	- Cables constructions that can use any wires made under the AS22759, AS81044, MIL-DTL-23038 & MIL-DTL-81381 specifications combined with the shield types, jacket types and marking styles as listed in WC 27500. Characteristics depends of the combination selected.	●			●	●	●	●	●	●	●	12
DSCC SMOOTH (04034 to 04046 wires & 04049 cables)	- Equivalent to AS22759/180 to /192 & WC 27500 DB to DR.	●		●	●	●	●	●	●	●	●	62
AS22759/180 AWG 26 to 10	- Tin Coated Copper conductor Smooth Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable Light weight	●					●	●				66
AS22759/181 AWG 24 to 20	- Silver Coated High Strength Copper Alloy conductor Smooth Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable Light weight			●			●	●				66
AS22759/181 AWG 26	- Silver Coated Ultra High Strength Copper Alloy conductor Smooth Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable Light weight				●		●	●				66
AS22759/182 AWG 24 to 20	- Nickel Coated High Strength Copper Alloy conductor Smooth Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable Light weight					●	●	●				66
AS22759/182 AWG 26	- Nickel Coated Ultra High Strength Copper Alloy conductor Smooth Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable Light weight					●	●	●				66
AS22759/186 AWG 26 to 2/0	- Silver Coated Copper conductor Smooth Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable			●			●	●				68
AS22759/187 AWG 26 to 2/0	- Nickel Coated Copper conductor Smooth Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable				●		●	●				68
AS22759/188 AWG 26 to 2/0	- Tin Coated Copper conductor Smooth Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable	●					●	●				68
AS22759/189 AWG 24 to 20	- Silver Coated High Strength Copper Alloy conductor Smooth Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable			●			●	●				72
AS22759/189 AWG 26	- Silver Coated Ultra High Strength Copper Alloy conductor Smooth Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable				●		●	●				72

Hook-up wires for Civil, Military aircraft and helicopters

Voltage rating: 600 Volts RMS / Maximum operating frequency: 2000 Hz

Specification	Description	Maximum operating temperature					Arc tracking resistant	Single core	Multi-core	Screened	Sheathed	Page
		150	180	210	200	260						
AS22759/190 AWG 24 to 20	- Nickel Coated High Strength Copper Alloy conductor Smooth Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable				●		●	●				72
AS22759/190 AWG 26	- Nickel Coated Ultra High Strength Copper Alloy conductor Smooth Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable				●		●	●				72
AS22759/191 AWG 26 to 10	- Silver Coated Copper conductor Smooth Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable Light weight				●		●	●				74
AS22759/192 AWG 26 to 10	- Nickel Coated Copper conductor Smooth Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable Light weight				●		●	●				74
AS22759/5 AWG 24 to 10	- Silver Coated Copper conductor Extruded PTFE Mineral Filled insulation			●				●				76
AS22759/6 AWG 24 to 10	- Nickel Coated Copper conductor Extruded PTFE Mineral Filled insulation				●			●				76
AS22759/7 AWG 24 to 10	- Silver Coated Copper conductor Extruded PTFE Mineral Filled insulation			●				●				78
AS22759/8 AWG 24 to 10	- Nickel Coated Copper conductor Extruded PTFE Mineral Filled insulation				●			●				78
AS22759/9 AWG 28 to 10	- Silver Coated Copper conductor Extruded PTFE insulation		●					●				80
AS22759/10 AWG 28 to 10	- Nickel Coated Copper conductor Extruded PTFE insulation				●			●				80
AS22759/11 AWG 28 to 10	- Silver Coated Copper conductor Extruded PTFE insulation			●				●				82
AS22759/12 AWG 28 to 10	- Nickel Coated Copper conductor Extruded PTFE insulation				●			●				82
AS22759/20 AWG 28 to 20	- Silver Coated High Strength Copper Alloy conductor Extruded PTFE insulation			●				●				84
AS22759/21 AWG 28 to 20	- Nickel Coated High Strength Copper Alloy conductor Extruded PTFE insulation				●			●				84
AS22759/22 AWG 28 to 20	- Silver Coated High Strength Copper Alloy conductor Extruded PTFE insulation			●				●				86
AS22759/23 AWG 28 to 20	- Nickel Coated High Strength Copper Alloy conductor Extruded PTFE insulation				●			●				86
AS22759/32 AWG 30 to 12	- Tin Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable Light weight	●							●			88
AS22759/44 AWG 30 - 12	- Silver Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable Light weight				●			●				88
AS22759/45 AWG 30 to 12	- Nickel Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable Light weight				●			●				88

Specification	Description	Maximum operating temperature					Arc tracking resistant	Single core	Multi-core	Screened	Sheathed	Page
		150	180	210	200	260						
AS22759/33 AWG 30 to 20	- Silver Coated High Strength Copper Alloy conductor Extruded XL-ETFE insulation UV Laser Markable Light weight				●			●				90
AS22759/46 AWG 30 to 20	- Nickel Coated High Strength Copper Alloy conductor Extruded XL-ETFE insulation UV Laser Markable Light weight				●			●				90
AS22759/35 AWG 26 to 20	- Silver Coated High Strength Copper Alloy conductor Extruded XL-ETFE insulation UV Laser Markable			●				●				92
AS22759/42 AWG 26 to 20	- Nickel Coated High Strength Copper Alloy conductor Extruded XL-ETFE insulation UV Laser Markable			●				●				92
AS22759/34 AWG 24 to 2/0	- Tin Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable Light weight	●						●				94
AS22759/41 AWG 26 to 2/0	- Nickel Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable Light weight			●				●				94
AS22759/43 AWG 26 to 2/0	- Silver Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable Light weight			●				●				94
AS81044/8 AWG 24 to 8	- Silver Coated Copper conductor Extruded XL-ETFE insulation	●						●				98
AS81044/9 AWG 24 to 8	- Tin Coated Copper conductor Extruded XL-Polyalkene/PVDF insulation	●						●				98
AS81044/10 AWG 26 to 20	- Silver Coated High Strength Copper Alloy conductor Extruded XL-Polyalkene/PVDF insulation	●						●				98
AS81044/11 AWG 30 to 12	- Silver Coated Copper conductor Extruded XL-ETFE insulation Light weight	●						●				100
AS81044/12 AWG 30 to 12	- Tin Coated Copper conductor Extruded XL-Polyalkene/PVDF insulation Light weight	●						●				100
AS81044/13 AWG 30 to 20	- Silver Coated High Strength Copper Alloy conductor Extruded XL-Polyalkene/PVDF insulation Light weight	●						●				100
AS22759/80 AWG 26 to 10	- Tin Coated Copper conductor Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable Light weight	●					●	●				102
AS22759/81 AWG 24 to 20	- Silver Coated High Strength Copper Alloy conductor Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable Light weight				●		●	●				102

Hook-up wires for Civil, Military aircraft and helicopters

Voltage rating: 600 Volts RMS / Maximum operating frequency: 2000 Hz

Specification	Description	Maximum operating temperature					Arc tracking resistant	Single core	Multi-core	Screened	Sheathed	Page
		150	180	210	200	260						
AS22759/81 AWG 26	- Silver Coated Ultra High Strength Copper Alloy conductor Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable Light weight				●		●	●				102
AS22759/82 AWG 24 to 20	- Nickel Coated High Strength Copper Alloy conductor Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable Light weight					●	●	●				102
AS22759/82 AWG 26	- Nickel Coated Ultra High Strength Copper Alloy conductor Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable Light weight				●	●	●					102
AS22759/86 AWG 26 to 2/0	- Silver Coated Copper conductor Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable			●			●	●				104
AS22759/87 AWG 8 to 2/0	- Nickel Coated Copper conductor Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable				●	●	●	●				104
AS22759/88 AWG 26 to 2/0	- Tin Coated Copper conductor Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable	●					●	●				104
AS22759/89 AWG 24 to 20	- Silver Coated High Strength Copper Alloy conductor Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable			●			●	●				108
AS22759/89 AWG 26	- Silver Coated Ultra High Strength Copper Alloy conductor Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable			●			●	●				108
AS22759/90 AWG 24 to 20	- Nickel Coated High Strength Copper Alloy conductor Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable				●	●	●	●				108
AS22759/90 AWG 26	- Nickel Coated Ultra High Strength Copper Alloy conductor Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable					●	●	●				108
AS22759/91 AWG 26 to 10	- Silver Coated Copper conductor Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable Light weight				●		●	●				110
AS22759/92 AWG 26 to 10	- Nickel Coated Copper conductor Composite PTFE/Polyimide Tape Wrap insulation UV Laser Markable Light weight					●	●	●				110
CC1T AWG 30 to 10	- Tin Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable Light weight	●						●				112

Specification	Description	Maximum operating temperature					Arc tracking resistant	Single core	Multi-core	Screened	Sheathed	Page
		150	180	210	200	260						
CC1S AWG 26 to 10	- Silver Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable Light weight				●			●				112
CC1N AWG 26 to 10	- Nickel Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable Light weight				●			●				112
CC1V AWG 30 to 16	- Silver Coated High Strength Copper Alloy conductor Extruded XL-ETFE insulation UV Laser Markable Light weight				●			●				112
CC1K AWG 26 to 16	- Nickel Coated High Strength Copper Alloy conductor Extruded XL-ETFE insulation UV Laser Markable Light weight				●			●				112
CC2T AWG 26 to 2/0	- Tin Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable	●						●				116
CC2S AWG 26 to 4	- Silver Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable				●			●				116
CC2N AWG 24 to 2	- Nickel Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable				●			●				116
CC2V AWG 26 to 16	- Silver Coated High Strength Copper Alloy conductor Extruded XL-ETFE insulation UV Laser Markable				●			●				116
CC2K AWG 26 16	- Nickel Coated High Strength Copper Alloy conductor Extruded XL-ETFE insulation UV Laser Markable				●			●				116
CC3T AWG 26 to 2/0	- Tin Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable	●						●				120
CC3S AWG 26 to 1/0	- Silver Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable				●			●				120
CC3N AWG 26 to 2/0	- Nickel Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable				●			●				120
CC3V AWG 26 to 16	- Silver Coated High Strength Copper Alloy conductor Extruded XL-ETFE insulation UV Laser Markable				●			●				120
CC3K AWG 26 to 16	- Nickel Coated High Strength Copper Alloy conductor Extruded XL-ETFE insulation UV Laser Markable				●			●				120
CC4T AWG 26 to 10	- Tin Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable	●						●				124
CC4S AWG 26 to 10	- Silver Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable				●			●				124
CC4N AWG 26 to 10	- Nickel Coated Copper conductor Extruded XL-ETFE insulation UV Laser Markable				●			●				124
CC4V AWG 26 to 16	- Silver Coated High Strength Copper Alloy conductor Extruded XL-ETFE insulation UV Laser Markable				●			●				124

Cables for power transmission

Voltage rating: 600 Volts RMS

Specification	Description	Maximum operating temperature				Arc Tracking Resistant	Single Core	Page
		150	180	200	260			
ASNE 0438 YV	- Flexible nickel plated aluminium wires - Single core, large sizes		●					130
ABS 0949 AD AWG 3 to 000	- Arc tracking resistant - Light weight wires - Nickel aluminium wires			●				30
NSA 935 308 YU	- Flexible aluminium wires - Polyimide insulation	●						132
AS22759/183 AWG 8 to 2/0	- Silver Coated Copper conductor - Smooth Composite PTFE/Polyimide Tape Wrap insulation - UV Laser Markable			●		●	●	134
AS22759/185 AWG 8 to 2/0	- Tin Coated Copper conductor - Smooth Composite PTFE/Polyimide Tape Wrap insulation - UV Laser Markable	●				●	●	134
AS22759/83 AWG 8 to 2/0	- Silver Coated Copper conductor - Composite PTFE/Polyimide Tape Wrap insulation - UV Laser Markable			●		●	●	136
AS22759/85 AWG 8 to 2/0	- Tin Coated Copper conductor - Composite PTFE/Polyimide Tape Wrap insulation - UV Laser Markable	●				●	●	136
VG 95218-20 type J - FX 5400	- High temperature - General purpose					●		138
NSA 935 131 DG EN 2854-003	- High temperature - General purpose					●		140
ESW 1000-010-XXX	- Large section - High temperature wire					●		142
SP 799	- Large section - High temperature wire		●				●	144

Nacelles and engines : high temperature

Voltage rating: 600 Volts RMS

Maximum operating frequency : 2000 Hz

Specification	Description	Maximum operating temperature				Arc Tracking Resistant	Single core	Multi-core	Screened	Sheathed	Page
		250	260	280	300 +						
AS22759/184 AWG 8 to 2/0	- Nickel Coated Copper conductor - Smooth Composite PTFE/Polyimide Tape Wrap insulation - UV Laser Markable	●				●	●				150
AS22759/84 AWG 8 to 2/0	- Nickel Coated Copper conductor - Composite PTFE/Polyimide Tape Wrap insulation - UV Laser Markable	●				●	●				152
BMS 13-58 type 1 & type 5	- High temperature - General purpose - UV laser printable		●				●				154
2100	- Flexible cables for high ambient temperatures	●					●				158
2103	- Flexible cables for high ambient temperatures		●				●				160
1050	- Screened cables for high ambient temperatures	●				●	●	●	●	●	162
1053	- Screened cables for high ambient temperatures		●			●	●	●	●	●	164
9310-N01 9310-N02 9310-N03 AWG 24 & 22	- High temperature wire and cables for engine - Nickel coated Hight strength copper alloy - Composite insulation			●		●	●	●	●	●	166

Nacelles and engines : high temperature, fire resistant/fire proof cables

Voltage rating: 600 Volts RMS

Maximum operating frequency : 2000 Hz

Specification	Nexans reference	Description	Maximum operating temperature				Single core	Multi-core	Screened	Sheathed	Page
			250	260	280	300 +					
ESW 1200-010-XXX	-	- Fire resistant cable	●				●				170
ESW 1201-010-XXX	-	- Fire resistant cable	●				●	●	●	●	172
ESW 1202-+++-XXX	-	- Fire resistant cable	●				●	●	●	●	172
ESW 1203-+++-XXX	-	- Fireproof cable	●				●				174
ESW 1250-010-XXX	-	- Fireproof cable	●				●				174
ESW 1251-010-XXX	-	- Fireproof cable	●				●	●	●	●	176
ESW 1252-+++-XXX	-	- Fireproof cable	●				●	●	●	●	176
ESW 1253-+++-XXX	-	- Fireproof cable	●				●	●	●	●	176
ESW 1254-010-002	-	- Fireproof cable	●				●				178
ESW 1254-022-002	-	- Fireproof cable - 2 or 3 twisted cores	●					●	●	●	180
ESW 1600-010-XXX	-	- Thermocouple - Fire resistant cable	●				●				182
ESW 1601-010-XXX	-	- Thermocouple - Fire resistant cable - 2 twisted cores	●				●		●	●	184
EN 2346-005 DW	-	- Fire resistant wires - Light weight - UV laser printable	●				●				186
EN 4608-004 GPA, GPB, GPC	-	- Fire resistant cable - Light weight cables - UV laser printable	●				●	●	●	●	188
ASNE 0437 DL EN 2346-003	-	- Fire resistant wires - Normal weight	●				●				190
TMF MIL-W-25038/1 (QPL)	TMF	- High temperature fire resistant wires	●				●				192
TMF-VR (A) MIL-W-25038/3 (QPL)	TMF VRA-US TMF VR-US	- High temperature fire resistant wires	●				●				194
TYPE FRM-A-US FRM-US-M25038/3	FRM-A-US FRM-US	- High temperature fire resistant wires	●				●				196
TMF-VR (A)-US x SJ** MIL-W-27500 (JF)		- High temperature fire resistant wires	●				●	●	●	●	198
BMS 13-55 type 2 class 1	-	- High temperature fire resistant wires	●				●				200
3000 A		- Fire resistant cable		●			●				202
BMS 13-67		- Very high temperature - Fire resistant cable			●	●	●	●	●	●	204
STUDY 124585	ET 124 585	- Very high temperature - Fire resistant cable			●	●			●	●	206
NSA 935 132 DJ		- Very high temperature - Fire resistant cable	●	●				●			208
10310 N02		- Very high temperature - Fire resistant cable		●			●	●	●	●	210

Coaxial cables for high frequency transmission

For information about MIL-C-17 specifications, see our standard catalogue

Specification	Nexans reference	Description	Maximum operating temperature			Impe-		Maximum operating frequency (MHz)	Maximum operating voltage	Page
			150	200	250	50	75			
SP 124962	ET 124962	UV laser miniature	●			●		3000	250	214
SP 124964	ET 124964	UV laser miniature triaxial cable	●			●		3000	250	216
SP 132868	ET 132868	UV laser miniature	●				●	3000	900	218
SP 132869	ET 132869	UV laser miniature triaxial cable	●				●	3000	900	220
EN 4604-003 WZ	-	50 ohms		●		●		3000	1700	222
EN 4604-004 WS	-	50 ohms		●		●		3000	1300	224
EN 4604-005 WL	-	75 ohms		●			●	3000	900	226
EN 4604-006 WM	-	50 ohms		●		●		5000	750	228
EN 4604-007 WN	-	50 ohms		●		●		6000	1000	230
EN 4604-008 WD	-	50 ohms		●		●		8000	1000	232
EN 4604-009 KW	-	50 ohms		●		●		6000	1000	234
EN 4604-010 KX	-	50 ohms		●		●		6000	1000	236
ECS 0757 KE	-	50 ohms triaxial cable		●		●		3000	250	238
ECS 0745 KC	ET 132954	75 ohms triaxial cable		●			●	3000	500	240
PAN 6422	-	50 ohms UV laser markable		●		●		1000	From 750 to 3700	242

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Data bus and high speed transmission cables

Voltage rating: from 250 to 750 Volts RMS

Specification	Nexans reference	Description	Maximum operating temperature				Impedance (ohms)				Maximum operating voltage	Page
			125	150	200	260	75	77	100	125		
ABS 0972 KB 24	ET 2PC236	Shielded quad	●						●		600	250
ABS 1503 KD 24	ET 2PF870	Shielded quad	●						●		600	252
SP 69794 EN 3375-004-C WJ	ET 69794-01 ET 69794-02	Twinaxial cable high immunity			●			●			600	254
EN 3375-005-C WV	ET 133189	Twinaxial cable high immunity			●			●			250	258
EN 3375-006-D ASNE 0290 XM	-				●			●			600	260
EN 3375-007-C WW ECS 0700	ET 132041				●			●			250	262
EN 3375-009-C WX	ET 133199	Twinaxial cable BUS CAN			●						600	266
SP 124960	ET 124960		●					●			250	268
SP 124961	ET 124961		●					●			250	270
SP 96770 ASNE 0479 WJ EN 3375-004B	ET 96770-01 ET 96770-02			●			●				250	272
EN 4608-005-B 002 GPB 24	-	Twinaxial cable Fireproof				●				● (120)	600	274
PAN 6421 ZA 002	ET 65529		●				●				600	276
ASNE 0259 HE	ET 63247		●						●		600	278
STUDY 69654	ET 69654		●						●		600	280
ASNE 0849 HJ 26	ET 124843	Twinaxial cable high immunity			●		●				600	282
STUDY 61333	ET 61333	Twinaxial cable high immunity			●		●				600	284
SP 69899 ASNE 0811 WY	ET 69899-01 ET 68899-02	Twinaxial cable high immunity			●			●			250	286
ABS 0386 WF	ET 96897	Twinaxial cable high immunity			●				●		600	288
132873	ET 132873	Twinaxial cable Fireproof				●			●		600	290
133026	ET 133026	Twinaxial cable Dual shield	●							●	600	292
133195	ET 133195	Twinaxial cable 120 Ω	●							●	600	294

Special cables

Specification	Nexans reference	Description	Maximum operating temperature		Maximum operating voltage	Page
			200	260		
STUDY 124401	ET 124401	Low noise screened pair cable, transmission cable		●	600	298
NSA 935 306 YK	ET 86891	Low noise screened pair cable, transmission cable		●	600	300
ESW 1404-022-006	ET 124762	Low noise screened pair cable, transmission cable		●	600	302
ESW 1405-024-006	ET 132057	Low noise screened pair cable, transmission cable		●	600	304
CAS 85-22 CAS 250-20P CAS 250-20SP CAS 250-22	ET 87067 ET 87208 ET 87209 ET 87068	Low noise coaxial cable	●	-	-	306
MBBN YH + EN 4049	ET 96532 ET 96533	Thermocouple extension Nickel chromium/nickel aluminium		●	600	308
ASNE 0409 BG ASNE 0410 SU ASNE 0411 TV ASNE 0412 VF	-	Flight test wire, UV laser printable	●		600	310
ECS 0828 MQB	ET 133235	Multipair AWG 24	●		600	312
ECS 0829 MQD	ET 133236	Multipair AWG 24	●		600	312

Optical cables

Maximum operating temperature: 125°C

Specification	Nexans reference	Description	Insulation	Sheath	Page
ABS 0963-003 LF	ET 132126	Multimode fiber optic cable	Zero halogen copolymer, high temperature	Polymer aromatic fiber braid + high temp dual layer compound	316
STUDY 133287	133287	Singlemode fiber optic	High temperature copolymer	High temperature copolymer	318
STUDY 132574	132574	Multimode fiber optic cable	High temperature copolymer		322

Wires and cables for avionics

Specification	Description	Maximum operating temperature	Single core	Multi-core	Insulation	Page
KZ 04, KZ 05, KZ 06	- Unscreened hook-up wires - High temperature	200°C	●		PTFE	326
KZ 55, KZ 57, KZ 59	- Screened and jacketed hook-up wires - High temperature	200°C	●		PTFE	328
KZ 67, KZ 69, KZ 71	- Screened and jacketed pairs - High temperature	200°C		●	PTFE	330
KZ 79, KZ 81, KZ 83	- Screened and jacketed triples - High temperature	200°C		●	PTFE	332
ETF, EF, EEF	- Unscreened hook-up wires - High temperature	200°C	●		PTFE	334

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Part 1

Hook-up wires for Civil, Military aircraft and helicopters

Copolymer High Temperatur

ABS 0949 - AD AWG 24 to 4

**Nickel copper clad aluminium alloy conductors
UV laser printable**

Applications

Designed for general purpose aircraft wiring applications.

600 Volts RMS

Construction

CONDUCTOR

1- AWG 24 and 22 :

1 nickel plated copper alloy wire + 6 nickel copper clad aluminium alloy wire

AWG 20 to 8 :

Nickel copper clad aluminium alloy concentric conductor

AWG 6 and 4 :

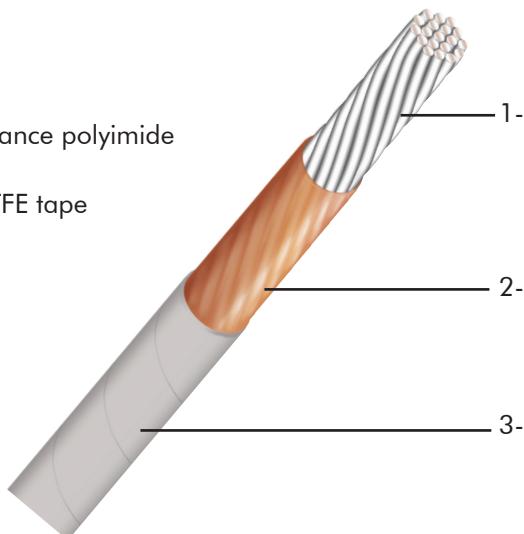
Nickel copper clad aluminium alloy rope-lay conductor

INSULATION

2- High performance polyimide

tape

3- Special UV PTFE tape



Other characteristics

Operating frequency : up to 2000 Hz

Mould and fungus resistant

Standards

ABS 0957 (conductors)

ABS 0958 (technical specification)

ABS 0949 AD (product specification)



-65°C to +180°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Arc tracking
resistant



RoHs



Very good
resistance to
aircraft fluids

■ ABS 0949 - AD AWG 24 to 4

Nexans references	AWG	Conductor			Finished wire				
		Stranding (Nbr x mm)	Diameter		Maximum DC resistance at 20°C (68°F) (Ohms/Km)	Diameter		Weight	
			Min. (mm)	Max. (mm)		Min. (mm)	Max. (mm)	Nom. (g/m)	Max. (g/m)
ABS 0949 AD 24	24	7 x 0.20	0.56	0.58	145	0.85	0.96	1.70	1.75
ABS 0949 AD 22	22	7 x 0.25	0.71	0.73	90.2	1.00	1.10	2.37	2.50
ABS 0949 AD 20	20	19 x 0.20	0.94	0.97	49.6	1.22	1.34	3.55	3.65
ABS 0949 AD 18	18	19 x 0.25	1.19	1.22	33.2	1.46	1.61	5.14	5.45
ABS 0949 AD 16	16	19 x 0.30	1.41	1.45	23	1.76	1.92	7.37	7.60
ABS 0949 AD 14	14	37 x 0.25	1.69	1.73	15.5	2.04	2.24	9.91	10.94
ABS 0949 AD 12	12	37 x 0.32	2.13	2.18	10.9	2.50	2.70	14.12	15.10
ABS 0949 AD 10	10	61 x 0.32	2.73	2.77	5.8	3.09	3.33	22.20	24.02
ABS 0949 AD 8	8	7 X 19 X 0.30	3.55	3.85	3.8	4.10	4.40	37.94	39.00
ABS 0949 AD 6	6	7 x 10 x 0.51	4.8	5.2	2.3	5.30	5.70	62.52	63.70
ABS 0949 AD 4	4	7 x 15 x 0.51	5.90	6.30	1.5	6.60	7.40	93.50	96.30

■ Identification

Standard color :

Grey

Marking on Jacket :

Green for AWG22, Blue for other gauges

Wording :

AD ** FR F++

with :

** = AWG

FR = Country of origin (FR = France)

F = Manufacturer (F = Nexans)

++ = Year of production (i.e. 08 = 2008)

ABS 0949 - AD AWG3 to 000

AWG 3 to 000

**Nickel plated aluminium alloy conductors
UV laser printable**

Applications

Designed for general purpose aircraft wiring applications.

600 Volts RMS

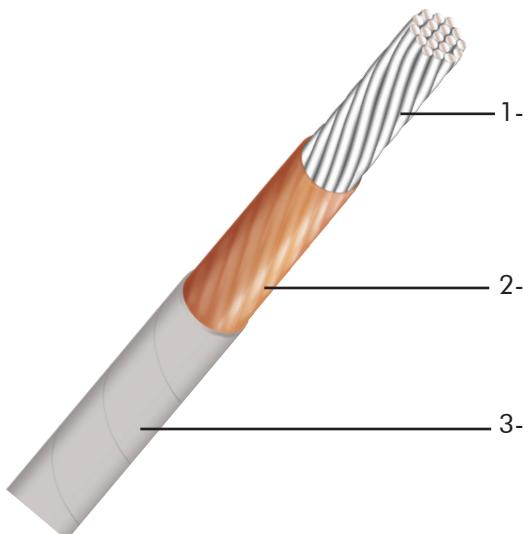
Construction

CONDUCTOR

1- Nickel plated aluminium rope-lay conductor

INSULATION

2- High performance polyimide tape
3- Special UV PTFE tape



Other characteristics

Operating frequency : up to 2000 Hz
Mould and fungus resistant

Standards

ABS 0957 (conductors)
ABS 0958 (technical specification)
ABS 0949 AD (product specification)



-65°C to +180°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Arc tracking
resistant



RoHS



Very good
resistance to
aircraft fluids

■ ABS 0949 - AD AWG 3 to 000

Nexans references	AWG	Conductor			Finished wire				
		Stranding (Nbr x mm)	Diameter		Maximum DC resistance at 20°C (68°F) (Ohms/Km)	Diameter		Weight	
			Min. (mm)	Max. (mm)		Min. (mm)	Max. (mm)	Nom. (g/m)	Max. (g/m)
ABS 0949 AD 3	3	7 x 19 x 0.51	6.5	7.1	1.18	7.28	7.74	91.26	94.00
ABS 0949 AD 2	2	7 x 24 x 0.51	7.4	8.0	0.94	8.07	8.57	113.1	116.5
ABS 0949 AD 1	1	7 x 30 x 0.51	8.3	8.9	0.75	8.94	9.50	139.17	143.5
ABS 0949 AD 0	0	19 x 14 x 0.51	9.7	10.3	0.60	0.29	10.93	175.81	181.0
ABS 0949 AD 00	00	19 x 18 x 0.51	11.1	11.7	0.43	11.65	12.37	222.96	230.0
ABS 0949 AD 000	000	19 x 22 x 0.51	12.4	13	0.36	12.91	13.71	267.57	276.0

Cables for power transmission

■ Identification

Standard color :

Grey

Marking on Jacket :

Blue

Wording :

AD ** FR F++

with :

** = AWG

FR = Country of origin (FR = France)

F = Manufacturer (F = Nexans)

++ = Year of production (i.e. 08 = 2008)

ABS 1354 ADB, ADC, ADD

Multicores nickel copper clad aluminium (AWG 24 to 4)
Multicores aluminium alloy (AWG 3 to 000)

Applications

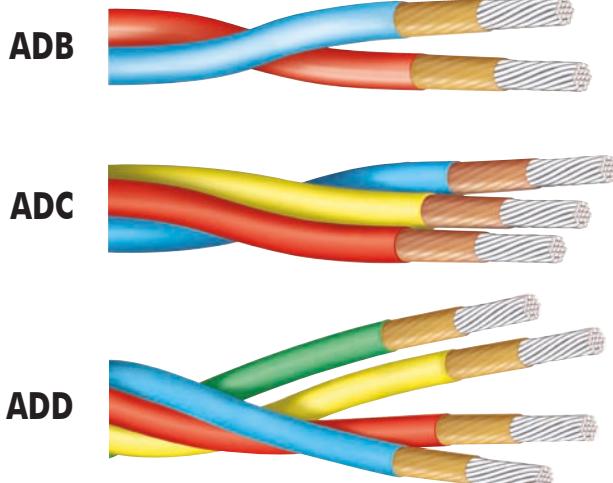
Designed for general purpose aircraft wiring applications.

600 Volts RMS

Construction

CORES

2, 3 or 4 cores ABS 0949 ADA



Other characteristics

Operating frequency : up to 2000 Hz
Mould and fungus resistant

Standards

ABS 1354 (product standard)
ABS 0958 (technical specification)



-65°C to +180°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Arc tracking
resistant



RoHs



Very good
resistance to
aircraft fluids

■ ABS 1354

PART NUMBERS	AWG	Nbr of cores	Finished Wire					
			Colours cores	Maximum DC resistance at 20°C (68°K) (Ohms/Km)	Diameter (mm)	Weight (g/m)	Nom.	Max.
ABS 1354 ADB	24	2	1 Red 1 Blue	149.4	1.78	1.9	3.47	3.70
ABS 1354 ADB	22	2		92.9	2.04	2.16	4.83	5.27
ABS 1354 ADB	20	2		51.1	2.58	2.75	7.24	7.53
ABS 1354 ADB	18	2		34.2	3.08	3.25	10.49	10.91
ABS 1354 ADB	16	2		23.7	3.70	3.85	15.03	15.63
ABS 1354 ADB	14	2		16	4.30	4.47	20.22	21.03
ABS 1354 ADB	12	2		11.2	5.12	5.31	28.80	30.07
ABS 1354 ADB	10	2		6	6.34	6.98	45.29	51.94
ABS 1354 ADB	8	2		3.91	8.58	8.92	77.4	80.5
ABS 1354 ADB	6	2		2.37	11.0	11.44	127.54	132.64
ABS 1354 ADB	4	2		1.55	13.42	13.96	190.74	198.37
ABS 1354 ADB	3	2		1.22	15.02	15.62	186.17	193.62
ABS 1354 ADB	2	2		0.97	16.64	17.31	230.72	239.95
ABS 1354 ADB	1	2		0.77	18.44	18.99	283.91	295.27
ABS 1354 ADB	0	2		0.62	21.22	21.86	358.65	372.99
ABS 1354 ADB	00	2		0.44	24.02	24.74	454.84	473.03
ABS 1354 ADB	000	2		0.37	26.62	27.42	545.84	567.68
ABS 1354 ADC	24	3	1 Red 1 Blue 1 Yellow	149.4	1.92	2.04	5.20	5.55
ABS 1354 ADC	22	3		92.9	2.20	2.33	7.25	7.91
ABS 1354 ADC	20	3		51.1	2.78	2.96	10.86	11.29
ABS 1354 ADC	18	3		34.2	3.32	3.49	15.73	16.36
ABS 1354 ADC	16	3		23.7	3.99	4.15	22.55	23.45
ABS 1354 ADC	14	3		16	4.63	4.83	30.32	31.54
ABS 1354 ADC	12	3		11.2	5.52	5.73	43.21	45.10
ABS 1354 ADC	10	3		6	6.83	7.53	67.93	77.91
ABS 1354 ADC	8	3		3.91	9.24	9.61	116.10	120.74
ABS 1354 ADC	6	3		2.37	11.85	12.32	191.31	198.96
ABS 1354 ADC	4	3		1.55	14.46	15.04	286.11	297.55
ABS 1354 ADC	3	3		1.22	16.18	16.83	279.26	290.43
ABS 1354 ADC	2	3		0.97	17.93	18.65	346.09	359.93
ABS 1354 ADC	1	3		0.77	19.87	20.66	425.86	442.89
ABS 1354 ADC	0	3		0.62	22.86	23.50	537.98	559.5
ABS 1354 ADC	00	3		0.44	25.88	26.60	682.26	709.55
ABS 1354 ADC	000	3		0.37	28.68	29.48	818.76	851.51

■ ABS 1354

PART NUMBERS	US AWG	Nbr of cores	Finished Wire					
			Colours cores	Maximum DC resistance at 20°C (68°K) (Ohms/Km)	Diameter (mm)	Weight (g/m)		
				Nom.	Max.	Nom.	Max.	
ABS 1354 ADD	24	4	1 Red 1 Blue 1 Yellow 1 Green	149.4	2.15	2.28	6.94	7.41
ABS 1354 ADD	22	4		92.9	2.46	2.61	9.67	10.54
ABS 1354 ADD	20	4		51.1	3.11	3.32	14.48	15.06
ABS 1354 ADD	18	4		34.2	3.72	3.92	20.97	21.81
ABS 1354 ADD	16	4		23.7	4.47	4.65	30.07	31.27
ABS 1354 ADD	14	4		16	5.19	5.40	40.43	42.05
ABS 1354 ADD	12	4		11.2	6.18	6.42	57.61	60.13
ABS 1354 ADD	10	4		6	7.65	8.43	90.58	103.89
ABS 1354 ADD	8	4		3.91	10.36	10.77	154.8	160.99
ABS 1354 ADD	6	4		2.37	13.28	13.81	255.08	265.28
ABS 1354 ADD	4	4		1.55	16.20	16.85	381.48	396.74
ABS 1354 ADD	3	4		1.22	18.13	18.86	372.34	387.23
ABS 1354 ADD	2	4		0.97	20.08	20.88	461.45	479.91
ABS 1354 ADD	1	4		0.77	22.26	23.15	567.81	590.52

■ Identification

2 cores (ADB) : Red - Blue

3 cores (ADC) : Red - Blue - Yellow

4 cores (ADD) : Red - Blue - Yellow - Green

Marking in black

ADA ** FR F++

with :

** = AWG

FR = Country of origin (FR = France)

F = Manufacturer (F = Nexans)

++ = Year of production (i.e. 08 = 2008)



ABS 1356 VNA, VNB, VNC, VND

Screened and jacketed single and multicores
UV laser printable

Applications

Designed for general purpose aircraft wiring applications.

600 Volts RMS

Construction

CORES

1, 2, 3 or 4 cores ABS 0949

AD

SCREEN

Nickel plated copper spiral screen

JACKET

Polyimide tape
UV PTFE tape

VNA



VNB



VNC



VND



Other characteristics

Operating frequency : up to 2000 Hz
Mould and fungus resistant

Standards

ABS 1356



-65°C to +180°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Arc tracking
resistant



RoHs



Very good
resistance to
aircraft fluids

■ ABS 1356

PART NUMBERS	US AWG	Nbr of Cores	Screen strands nominal diameter (mm)	Finished Wire							
				Colours		Maximum DC Resistance at 20°C (68°K) (Ohms/Km)	Diameter (mm)		Weight (g/m)		
				Cores	Jacket		Nom.	Max.	Nom.	Max.	
ABS 1356 VNA	24	1	0.08	1 Grey	Grey	145	1.38	1.45	4.57	4.80	
ABS 1356 VNA	22	1	0.08		Grey	90.2	1.51	1.60	5.58	5.86	
ABS 1356 VNA	20	1	0.08		Grey	49.6	1.78	1.87	7.48	7.75	
ABS 1356 VNA	18	1	0.08		Grey	33.2	2.03	2.11	9.73	10.40	
ABS 1356 VNA	16	1	0.10		Grey	23	2.38	2.48	13.64	14.51	
ABS 1356 VNA	14	1	0.10		Grey	15.5	2.68	2.79	17.10	17.96	
ABS 1356 VNA	12	1	0.10		Grey	10.9	3.09	3.20	22.56	24.30	
ABS 1356 VNA	10	1	0.12		Grey	5.8	3.74	3.89	33.91	36.07	
ABS 1356 VNB	24	2	0.08	1 Red	Grey	149.4	2.27	2.40	7.84	8.15	
ABS 1356 VNB	22	2	0.08		Grey	92.9	2.53	2.70	9.77	10.16	
ABS 1356 VNB	20	2	0.10		Grey	51.1	3.11	3.27	14.31	14.88	
ABS 1356 VNB	18	2	0.10		Grey	34.2	3.61	3.75	18.81	20.20	
ABS 1356 VNB	16	2	0.12		Grey	23.7	4.27	4.44	26.26	28.10	
ABS 1356 VNB	14	2	0.15		Grey	16.0	4.93	5.13	35.5	37.27	
ABS 1356 VNB	12	2	0.20		Grey	11.2	5.85	6.09	51.50	55.78	
ABS 1356 VNB	10	2	0.20		Grey	6.0	7.07	7.39	73.05	78.19	
ABS 1356 VNC	24	3	0.10	1 Red 1 Blue 1 Yellow	Grey	149.4	2.45	2.59	11.14	11.59	
ABS 1356 VNC	22	3	0.10		Grey	92.9	2.73	2.91	13.96	14.52	
ABS 1356 VNC	20	3	0.12		Grey	51.1	3.35	3.52	20.34	21.15	
ABS 1356 VNC	18	3	0.12		Grey	34.2	3.89	4.05	26.89	28.80	
ABS 1356 VNC	16	3	0.15		Grey	23.7	4.62	4.80	38.23	40.80	
ABS 1356 VNC	14	3	0.15		Grey	16.0	5.26	5.47	48.38	50.80	
ABS 1356 VNC	12	3	0.20		Grey	11.2	6.25	6.50	70.04	75.81	
ABS 1356 VNC	10	3	0.20		Grey	6.0	7.56	7.90	100.81	107.60	
ABS 1356 VND	24	4	0.10	1 Red 1 Blue 1 Yellow	Grey	149.4	2.68	2.84	13.74	14.29	
ABS 1356 VND	22	4	0.10		Grey	92.9	2.99	3.19	17.37	18.06	
ABS 1356 VND	20	4	0.12		Grey	51.1	3.68	3.86	25.38	26.39	
ABS 1356 VND	18	4	0.12		Grey	34.2	4.29	4.46	33.83	36.22	
ABS 1356 VND	16	4	0.15		Grey	23.7	5.10	5.30	48.14	51.30	
ABS 1356 VND	14	4	0.20		Grey	16.0	5.92	6.16	66.67	70.00	

■ Identification

Core marking in black

ADA ** FR F++

Jacket marking

XXX ** FR F++

Color : Green for AWG 22, 18, 14 and 10 ; Blue for AWG 24, 20, 16 and 12

with :

XXX= Short designation (VNA, VNB, VNC, VND)

** = AWG

FR = Country of origin (FR = France)

F = Manufacturer (F = Nexans)

++= Year of production (i.e. 08 = 2008)

Applications

Designed for general purpose aircraft wiring applications.

600 Volts RMS

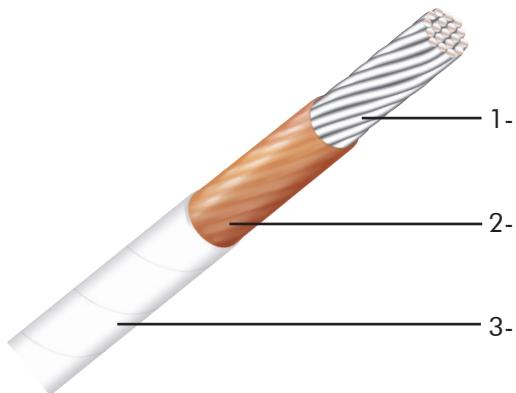
Construction

CORES

- 1- Stranded conductor in nickel plated high strength copper alloy (AWG 26 & 24) or nickel plated copper (AWG 22 to 2)

INSULATION

- 2- Special polyimide tape
- 3- Special UV PTFE tape(s)



Other characteristics

Operating frequency : up to 2000 Hz
Mould and fungus resistant

Standards

prEN2267-010 product standard
prEN4434 for conductors AWG 26 to 6
prEN2083 for conductors AWG 4 to 2
prEN3475 for tests & performances



-55°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Arc tracking
resistant



Very good
resistance to
aircraft fluids

PART NUMBERS	Code of nominal section	Color code	AWG	Conductor			Finished Wire				
				Stranding Number x Dia. of strands (mm)	Diameter (mm)		Maximum DC resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)		tWeight (g/m)	
					Min.	Max.		Min.	Max.	Nom.	Max.
EN 2267-010A	001	S	26	19 x 0.100	0.47	0.49	160.0	0.75	0.84	1.95	2.08
EN 2267-010A	002	S	24	19 x 0.120	0.555	0.585	114.0	0.85	0.96	2.64	2.72
EN 2267-010A	004	S	22	19 x 0.150	0.71	0.73	60.0	1.00	1.10	3.89	4.14
EN 2267-010A	006	S	20	19 x 0.200	0.94	0.97	33.2	1.22	1.34	6.57	6.85
EN 2267-010A	010	S	18	19 x 0.250	1.19	1.22	21.1	1.46	1.61	10.15	10.43
EN 2267-010A	012	S	16	19 x 0.300	1.41	1.45	14.5	1.76	1.92	14.05	14.61
EN 2267-010A	020	S	14	37 x 0.250	1.69	1.73	10.9	2.04	2.24	19.31	19.78
EN 2267-010A	030	S	12	37 x 0.320	2.13	2.18	6.8	2.50	2.70	29.25	31.33
EN 2267-010A	051	S	10	61 x 0.320	2.73	2.77	4.1	3.13	3.33	47.37	49.85
EN 2267-010A	090	S	8	127 x 0.300	3.55	3.85	2.3	4.10	4.40	87.81	90.00
EN 2267-010A	140	S	6	27 x 7 x 0.300	4.80	5.20	1.58	5.30	5.70	132.41	135.00
EN 2267-010A	220	S	4	37 x 12 x 0.250	-	6.80	0.97	6.71	7.41	215.15	222.00
EN 2267-010A	340	S	2	37 x 19 x 0.250	-	8.60	0.61	8.28	9.16	336.10	347.00

Identification

Standard colors code :

White except AWG 26 which is light yellow and AWG 22 which is light green
 AWG 24 is available in light blue color (EN2267-010A 02B)

Marking green color:

EN DR ** FR F ++

with :

DR = Short designation

** = AWG

FR = Country of origin (FR = France)

F = Manufacturer (F = Nexans)

++ = Year of production (i.e. 08 = 2008)

EN 2267-009 DRB DRC DRD

Multicore DRA

Applications

Designed for general purpose aircraft wiring applications.

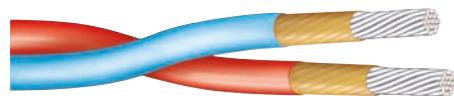
600 Volts RMS

Construction

CORES

2, 3 or 4 cores EN2267-009A

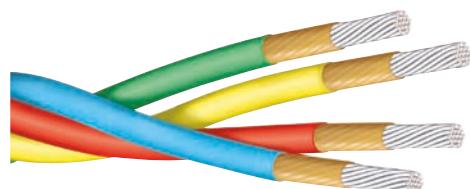
DRB



DRC



DRD



Other characteristics

Operating frequency : up to 2000 Hz

Mould and fungus resistant

Standards

prEN2267-009 product standard
prEN2267-002 general specification



-55°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Arc tracking
resistant



Very good
resistance to
aircraft fluids

PART NUMBERS	Code of nominal section	Color code	US AWG	Number of cores	Finished Wire					
					Colors Cores	Maximum DC resistance at 20°C (68°K) (Ohms/Km)	Diameter (mm)		Weight (g/m)	
							Nom.	Max.	Nom.	Max.
EN 2267-009B	001	P	26	2	1 Red 1 Blue	165	1.56	1.68	3.98	4.28
EN 2267-009B	002	P	24	2		117	1.82	1.92	5.39	5.60
EN 2267-009B	004	P	22	2		61.7	2.10	2.20	7.94	8.53
EN 2267-009B	006	P	20	2		34.1	2.60	2.68	13.40	14.11
EN 2267-009B	010	P	18	2		21.7	3.08	3.22	20.71	21.49
EN 2267-009B	012	P	16	2		14.9	3.66	3.84	28.66	30.10
EN 2267-009B	020	P	14	2		11.2	4.32	4.48	39.39	40.75
EN 2267-009B	030	P	12	2		6.99	5.14	5.40	59.67	64.54
EN 2267-009B	051	P	10	2		4.22	6.42	6.66	96.63	102.69
EN 2267-009B	090	P	8	2		2.37	8.60	8.80	179.13	185.40
EN 2267-009B	140	P	6	2		1.63	11.10	11.40	270.12	278.10
EN 2267-009B	220	P	4	2		1	14.12	14.82	438.91	457.32
EN 2267-009C	001	P	26	3	1 Red 1 Blue 1 Yellow	165	1.68	1.81	5.97	6.43
EN 2267-009C	002	P	24	3		117	1.96	2.06	8.08	8.40
EN 2267-009C	004	P	22	3		61.7	2.26	2.37	11.90	12.79
EN 2267-009C	006	P	20	3		34.1	2.80	2.88	20.10	21.17
EN 2267-009C	010	P	18	3		21.7	3.32	3.46	31.06	32.23
EN 2267-009C	012	P	16	3		14.9	3.94	4.13	42.99	45.14
EN 2267-009C	020	P	14	3		11.2	4.65	4.82	59.09	61.12
EN 2267-009C	030	P	12	3		6.99	5.54	5.81	89.50	96.81
EN 2267-009C	051	P	10	3		4.22	6.92	7.16	144.95	154.04
EN 2267-009C	090	P	8	3		2.37	9.27	9.46	268.7	278.10
EN 2267-009C	140	P	6	3		1.63	11.96	12.26	405.17	417.15
EN 2267-009C	220	P	4	3		1	15.21	15.93	658.36	685.98
EN 2267-009D	001	P	26	4	1 Red 1 Blue 1 Yellow 1 Green	165	1.88	2.02	7.96	8.57
EN 2267-009D	002	P	24	4		117	2.20	2.30	10.77	11.21
EN 2267-009D	004	P	22	4		61.7	2.53	2.64	15.87	17.06
EN 2267-009D	006	P	20	4		34.1	3.14	3.22	26.81	28.22
EN 2267-009D	010	P	18	4		21.7	3.72	3.86	41.41	42.97
EN 2267-009D	012	P	16	4		14.9	4.42	4.61	57.32	60.19
EN 2267-009D	020	P	14	4		11.2	5.21	5.38	78.78	81.49
EN 2267-009D	030	P	12	4		6.99	6.20	6.48	119.34	129.08
EN 2267-009D	051	P	10	4		4.22	7.75	7.99	193.27	205.38
EN 2267-009D	090	P	8	4		2.37	10.38	10.56	358.26	370.80
EN 2267-009D	140	P	6	4		1.63	13.40	13.68	540.23	556.20
EN 2267-009D	220	P	4	4		1	17.04	17.78	877.81	914.64

Identification

Marking white for red and green cores, green for blue and yellow cores :

EN DRA ** FR F ++

with :

DRA = short designation

** = AWG

FR = Country of origin (FR = France)

F = Manufacturer (F = Nexans)

++ = Year of production (i.e. 08 = 2008)

EN 2714-013 MLA MLB MLC MLD

Screened and jacketed, light weight, UV cable

Applications

Designed for general purpose aircraft wiring applications.

600 Volts RMS

Construction

CORES

1, 2, 3 or 4 cores
EN2267-009A

SCREEN

Nickel plated copper spiral screen

JACKET

Polyimide tape
UV PTFE tape

MLA



MLB



MLC



MLD



Other characteristics

Operating frequency : up to 2000 Hz

Standards

prEN4434 for conductors
prEN2267-009 for cores
prEN2714-013 for screened and jacketed single and multicores



-55°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Arc tracking
resistant



Very good
resistance to
aircraft fluids

PART NUMBERS	Code of nom. section	Color code	AWG	Num-ber of cores	Screen strands nom. Ø (mm)	Finished Wire							
						Colors		Maximum DC resistance at 20°C (68°K) (Ohms/Km)	Diameter (mm)		Weight (g/m)		
						Cores	Jacket		Nom.	Max.	Nom.	Max.	
EN 2714-013A	001	F	26	1	0.08	Light yellow	White	160	1.23	1.31	4.35	4.68	
EN 2714-013A	002	F	24	1	0.08	White	Light blue	114	1.36	1.45	5.37	5.76	
EN 2714-013A	004	F	22	1	0.08	Light green	White	60	1.50	1.60	6.97	7.51	
EN 2714-013A	006	F	20	1	0.08	White	Light blue	33.2	1.75	1.84	10.28	10.77	
EN 2714-013A	010	F	18	1	0.08	White	White	21.1	1.99	2.08	14.47	14.97	
EN 2714-013A	012	F	16	1	0.10	White	Light blue	14.5	2.32	2.43	19.95	20.97	
EN 2714-013A	020	F	14	1	0.10	White	White	10.9	2.65	2.74	26.17	27.03	
EN 2714-013A	030	F	12	1	0.10	White	White	6.8	3.06	3.20	37.31	39.70	
EN 2714-013A	051	F	10	1	0.12	White	White	4.1	3.74	3.89	58.72	61.94	
EN 2714-013B	001	F	26	2	0.08	1 Red 1 Blue	White	165	2.01	2.13	7.63	8.17	
EN 2714-013B	002	F	24	2	0.08		Light blue	117	2.27	2.40	9.58	10.23	
EN 2714-013B	004	F	22	2	0.08		White	61.7	2.55	2.70	12.70	13.64	
EN 2714-013B	006	F	20	2	0.10		Light blue	34.1	3.09	3.22	20.17	21.05	
EN 2714-013B	010	F	18	2	0.10		White	21.7	3.57	3.71	28.62	29.52	
EN 2714-013B	012	F	16	2	0.12		Light blue	14.9	4.19	4.38	39.30	41.20	
EN 2714-013B	020	F	14	2	0.15		White	11.2	4.91	5.04	54.19	55.83	
EN 2714-013B	030	F	12	2	0.20		White	6.99	5.83	6.09	81.80	86.79	
EN 2714-013B	051	F	10	2	0.20		White	4.22	7.11	7.39	123.94	130.51	
EN 2714-013C	001	F	26	3	0.08	1 Red 1 Blue 1 Yellow	White	165	2.13	2.26	10.25	10.94	
EN 2714-013C	002	F	24	3	0.10		Light blue	117	2.45	2.59	13.83	14.72	
EN 2714-013C	004	F	22	3	0.10		White	61.7	2.75	2.91	18.45	19.76	
EN 2714-013C	006	F	20	3	0.12		Light blue	34.1	3.33	3.48	29.23	30.44	
EN 2714-013C	010	F	18	3	0.12		1 Blue	White	21.7	3.85	4.00	41.75	42.96
EN 2714-013C	012	F	16	3	0.15		Light blue	14.9	4.53	4.73	57.96	60.67	
EN 2714-013C	020	F	14	3	0.15		White	11.2	5.25	5.39	76.59	78.83	
EN 2714-013C	030	F	12	3	0.20		White	6.99	6.23	6.50	115.68	122.72	
EN 2714-013C	051	F	10	3	0.20		White	4.22	7.61	7.90	177.31	186.69	
EN 2714-013D	001	F	26	4	0.10	1 Red 1 Blue 1 Yellow 1 Green	White	165	2.37	2.51	13.69	14.57	
EN 2714-013D	002	F	24	4	0.10		Light blue	117	2.69	2.84	17.37	18.47	
EN 2714-013D	004	F	22	4	0.10		White	61.7	3.03	3.19	23.4	25.04	
EN 2714-013D	006	F	20	4	0.12		Light blue	34.1	3.67	3.82	37.31	38.81	
EN 2714-013D	010	F	18	4	0.12		White	21.7	4.25	4.41	53.73	55.22	
EN 2714-013D	012	F	16	4	0.15		Light blue	14.9	5.01	5.23	74.58	78.02	
EN 2714-013D	020	F	14	4	0.20		White	11.2	5.91	6.06	104.39	107.36	

Identification

Marking on cores:

EN DRA ++ FR F ** color : white for red and green cores, green for blue and yellow cores

Marking on jacket:

EN xxx ++ FR F ** color : green

with :

xxx = short designation (MLA, MLB, MLC, MLD)

++ = AWG

FR = Country of origin (FR = France)

F = Manufacturer (F = Nexans)

** = Year of production (i.e. 08 = 2008)



MME/MMF/MMG EN 2714-014

Screened and jacketed, light weight, UV cable

Applications

Designed for general purpose aircraft wiring applications.

600 Volts RMS

Construction

CORES

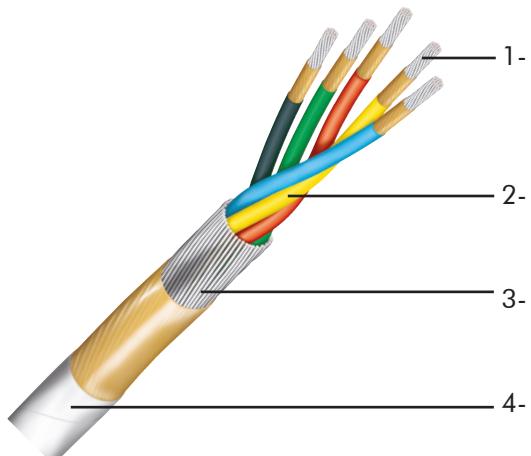
- 1- EN 2267-009A
- 2- Polyimide tape

SCREEN

- 3- Nickel plated copper braid

JACKET

- 4- Polyimide tape
- UV PTFE tape



Other characteristics

Operating frequency : up to 2000 Hz

Short designation

- 5 cores : MME
- 6 cores : MMF
- 7 cores : MMG
- 8 cores : MMH
- 10 cores : MMK

Standards

- prEN4434 for conductors
- prEN2267-009 for cores
- prEN2714-014 for screened and jacketed multicores



-55°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Arc tracking
resistant



Very good
resistance to
aircraft fluids

EN 2714-014

PART NUMBERS	Code of nominal section	Color code	AWG	Nbr of cores	Screen strands nominal diameter (mm)	Finished Wire						
						Colours		Maximum DC resistance at 20°C (68°K) (Ohms/Km)	Diameter (mm)		Weight (g/m)	
						Cores	Jacket		Nom.	Max.	Nom.	Max.
EN 2714-014E	010	J	18	5	0.12	White, Blue, Yellow, Red, Green	White	21.7	5.03	5.26	73.22	76.0
EN 2714-014E	012	J	16	5	0.12	Black, Blue, Yellow, Red, Green	Light blue	14.9	5.82	6.10	97.31	102.2
EN 2714-014E	020	J	14	5	0.12	Red, Blue, Yellow, Green, White	White	11.2	6.71	7.05	28.62	135.0
EN 2714-014E	030	H	12	5	0.15	Red, Blue, Yellow, Green, White, Black	Light blue	6.99	7.94	8.41	91.30	205.6
EN 2714-014E	002	F	24	5	0.10	Red, Blue, Yellow, Green, White, Black	Light blue	117	3.21	3.29	24.79	26.2
EN 2714-014F	002	F	24	6	0.12	Red, Blue, Yellow, Green, White, Black	Light blue	117	3.56	3.65	31.9	32.2
EN 2714-014G	002	F	24	7	0.12	Red, Blue, Yellow, Green, White, Black, Brown	Light blue	117	3.61	3.80	32.96	34.60
EN 2714-014H	002	F	24	8	0.12	Red, Blue, Yellow, Green, White, Black, Brown, Orange	Light blue	117	4.12	4.37	42.25	42.95
EN 2714-014K	002	F	24	10	0.12	Red, Blue, Yellow, Green, White, Black, Brown, Orange, Violet, Grey	Light blue	117	4.51	4.74	46.43	48.75

Identification**Marking on cores:**

EN DRA ++ FR F **

White for black, red, brown, green and violet core

Green for blue, yellow, white, orange and grey core

Marking on jacket:

EN xxx ++ FR F ** color : green

with :

xxx = short designation

++ = AWG

FR = Country of origin (FR = France)

F = Manufacturer (F = Nexans)

** = Year of production (i.e. 08 = 2008)

DRP/DRT/DRQ - EN 2266-008 TYPE

Multicore cables unshielded and jacketed
200 °C, Light Weight , UV
Arc Tracking Resistant

Applications

Designed for general Purpose
Aircraft Wiring Applications.

600 Volts RMS

Construction

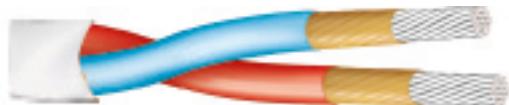
CORES

2, 3 or 4 cores
EN 2267-009A

JACKET

Polyimide Tape
UV Laser Markable
Top coat

DRP



DRT



DRQ



Other characteristics

Operating frequency: up to 2000 Hz
Mould and fungus resistant

Standards

For conductors:
prEN 4434
For cores:
prEN 2267-09
For Jacketed multicore cable:
EN 2266-008
For laser marking:
EN 3475 - 705 -706



-55°C to +200°C
(Ambient. + Rise.)



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Arc tracking
resistant



Very good
resistance to
aircraft fluids

EN 2266-008 Type

PART NUMBERS	Code of nominal section	Color code	US AWG	Nbr of Cores Number of cores	Finished Wire							
					Colours		Maximum DC resistance at 20°C (68°K) (Ohms/Km)	Diameter (mm)		Weight (g/m)		
					Cores	Jacket		Nom.	Max.	Nom.	Max.	
DRP 26	001	P	26	2	1 Red	White	165	1.76	1.86	4.81	5.01	
	002	P	24	2		Light blue	117	2.02	2.10	6.34	6.54	
	004	P	22	2		White	61.7	2.30	2.39	9.26	9.47	
	006	P	20	2		Light blue	34.1	2.80	2.91	14.92	15.28	
	010	P	18	2		White	21.7	3.28	3.44	22.26	22.90	
	012	P	16	2		Light blue	14.9	3.85	4.02	30.48	31.78	
	020	P	14	2		White	11.2	4.53	4.67	41.59	42.61	
	030	P	12	2		White	6.99	5.34	5.50	63.88	65.82	
DRT 26	001	P	26	3	1 Red	White	165	1.87	1.99	6.94	7.28	
	002	P	24	3		Light blue	117	2.16	2.24	9.21	9.50	
	004	P	22	3		White	61.7	2.46	2.55	13.55	13.91	
	006	P	20	3		Light blue	34.1	3.00	3.12	21.96	22.55	
	010	P	18	3		White	21.7	3.52	3.68	32.91	33.91	
	012	P	16	3		Light blue	14.9	4.13	4.30	45.16	47.15	
	020	P	14	3		White	11.2	4.6	5.01	61.72	63.34	
	030	P	12	3		White	6.99	5.73	5.98	95.05	99.57	
DRQ 26	001	P	26	4	1 Red	White	165	2.08	2.22	9.08	9.56	
	002	P	24	4		Light blue	117	2.39	2.49	12.08	12.48	
	004	P	22	4		White	61.7	2.73	2.87	17.84	18.34	
	006	P	20	4		Light blue	34.1	3.34	3.50	29.00	29.82	
	010	P	18	4		1 Blue	White	21.7	3.92	4.15	43.56	44.92
	012	P	16	4		1 Yellow	Light blue	14.9	4.60	4.80	59.84	62.52
	020	P	14	4		1 Green	White	11.2	5.42	5.48	81.85	84.06
	030	P	12	4		White	6.99	6.40	6.61	126.21	129.96	

Identification

Cores:

Colour of marking: White for Red and Green core.
Green for Blue, White and Yellow core.

Marking: EN DR A ++ FRF**

Jacket:

Colour of marking: Green

Marking: DRx ++ FRF**

DRx = Short designation (DRP, DRT, DRQ)

++ = Awg

FR = Country of Origin (FR = France)

F = Manufacturer (F = Nexans)

** = Year of manufacturing (ie. 10 = 2010)

MNA/MNB/MNC/MND - EN 2713-012 TYPE

**Multicore cables shielded and jacketed
200 °C, Light Weight , UV
Arc Tracking Resistant**

Applications

Designed for general purpose
aircraft wiring applications

600 Volts RMS

Construction

CORES

1, 2, 3 or 4
cores EN 2267-009A

SCREEN

Silver plated copper spiral
screen

JACKET

Polyimide Tape
UV Laser Markable
Top coat

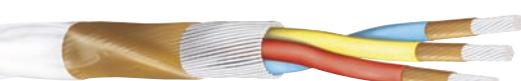
MNA



MNB



MNC



MND



Other characteristics

Operating frequency: up to 2000 Hz
Mould and fungus resistant

Standards

For conductors:
prEN 4434
For cores:
prEN 2267-009
For Screened and Jacketed
multicore cable:
EN 2713-012
For laser marking:
EN 3475 - 705 –706



-55°C to +200°C
(Ambient. + Rise.)



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Arc tracking
resistant



Very good
resistance to
aircraft fluids

EN 2713-012 Type

PART NUM-BERS	Code of nominal section	Color code	US AWG	Nbr of Cores Number of cores	Screen Strands nominal diameter (mm)	Finished Wire						
						Colours		Maximum DC resist-ance at 20°C (68°K) (Ohms/Km)	Diameter (mm)		Weight (g/m)	
						Cores	Jacket		Nom.	Max.	Nom.	Max.
MNA 26	001	F	26	1		Light yellow	White	160	1.15	1.23	4.01	4.45
MNA 24	002	F	24	1		White	Light blue	114	1.28	1.35	4.99	5.30
MNA 22	004	F	22	1	0.08	Light green	White	60	1.42	1.49	6.67	7.16
MNA 20	006	F	20	1		White	Light blue	33.2	1.67	1.73	9.88	10.53
MNA 18	010	F	18	1		White	White	21.1	1.92	2.00	13.90	14.90
MNA 16	012	F	16	1		White	Light blue	14.5	2.24	2.35	19.27	20.82
MNA 14	020	F	14	1	0.1	White	White	10.9	2.58	2.66	25.44	26.54
MNA 12	030	F	12	1		White	White	6.8	2.99	3.13	37.25	39.75
MNA 10	051	F	10	1		White	White	4.1	3.61	3.76	57.28	60.05
MNB 26	001	F	26	2			White	165	1.94	2.07	7.15	7.96
MNB 24	002	F	24	2	0.08		Light blue	117	2.20	2.31	9.03	9.61
MNB 22	004	F	22	2			White	61.7	2.48	2.59	12.33	13.28
MNB 20	006	F	20	2	0.01	1 Red	Light blue	34.1	3.02	3.14	19.61	20.96
MNB 18	010	F	18	2		1 Blue	White	21.7	3.50	3.65	27.77	29.71
MNB 16	012	F	16	2			Light blue	14.9	4.11	4.31	38.26	41.29
MNB 14	020	F	14	2	0.12		White	11.2	4.79	4.93	50.73	53.08
MNB 12	030	F	12	2			White	6.99	5.61	5.83	74.69	78.84
MNC 26	001	F	26	3	0.08	1 Blue	White	165	2.05	2.20	9.69	10.75
MNC 24	002	F	24	3			Light blue	117	2.34	2.45	12.38	13.17
MNC 22	004	F	22	3	0.01	1 Red	White	61.7	2.64	2.76	17.17	18.36
MNC 20	006	F	20	3		1 Blue	Light blue	34.1	3.22	3.35	27.51	29.27
MNC 18	010	F	18	3	0.12	1 Yellow	White	21.7	3.73	3.89	39.42	42.02
MNC 16	012	F	16	3			Light blue	14.9	4.39	4.6	54.37	58.47
MNC 14	020	F	14	3	0.15		White	11.2	5.18	5.33	75.33	78.63
MNC 12	030	F	12	3			White	6.99	6.14	6.34	112.27	115.71
MND 26	001	F	26	4	0.08	1 Blue	White	165	2.26	2.41	12.24	13.54
MND 24	002	F	24	4			Light blue	117	2.57	2.70	15.72	16.67
MND 22	004	F	22	4	0.01	1 Red	White	61.7	2.95	3.08	23.07	24.55
MND 20	006	F	20	4		1 Blue	Light blue	34.1	3.56	3.70	35.40	37.59
MND 18	010	F	18	4	0.12	1 Yellow	White	21.7	4.18	4.35	52.61	55.87
MND 16	012	F	16	4		1 Green	Light blue	14.9	4.86	5.10	70.47	75.54
MND 14	020	F	14	4	0.15		White	11.2	5.83	6.06	98.75	104.47
MND 12	030	F	12	4			White	6.99	6.81	7.09	146.12	154.71

Identification

Cores:

Colour of marking: White for Red and Green core.
Green for Blue, White and Yellow core.

Marking: EN DR A ++ FRF**

Jacket:

Colour of Jacket: See table on this datasheet

Colour of marking: Green

Marking: MNx ++ FRF**

MNx = Short designation (MNA, MNB, MNC, MND)

++ = Awg

FR = Country of Origin (FR = France)

F = Manufacturer (F = Nexans)

** = Year of manufacturing (ie. 10 = 2010)

FX 5301

**VG 95218-20 type H
Single wire**

Applications

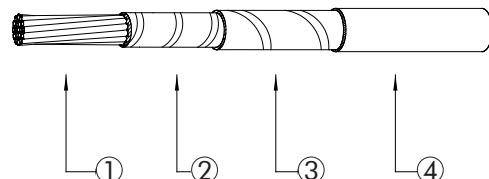
Designed for general purpose aircraft wiring applications.

600 Volts RMS

Construction

CONDUCTOR

- 1- Stranded conductor made of silver plated copper or high strength copper alloy (size 002)



INSULATION

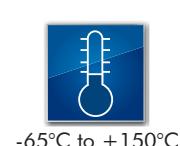
- 2- PTFE tape
- 3- Polyimide tape
- 4- UV laser markable FEP lacquer top coat

Other characteristics

Operating frequency : up to 2000 Hz

Standards

VG 95218-2 (may 1998)
VG 95218-20 (february 2000)



-65°C to +150°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Arc tracking
resistant



Very good
resistance to
aircraft fluids



RoHs

FX 5301

VG Reference	NEXANS Part Number	Dash Number (VG)	Size Code (NEXANS)	AWG (1)	Conductor		
					Stranding Nbr x diam of strands (mm)	Diameter Min. (mm)	Max. (mm)
VG 95218T020H019	FX 5301-002	01	002	24	19 x 0.12	0.55	0.62
VG 95218T020H02A	FX 5301-004	02	004	22	19 x 0.15	0.70	0.80
VG 95218T020H039	FX 5301-006	03	006	20	19 x 0.20	0.94	1.04
VG 95218T020H049	FX 5301-010	04	010	18	19 x 0.25	1.18	1.29
VG 95218T020H059	FX 5301-012	05	012	16	19 x 0.30	1.39	1.53
VG 95218T020H069	FX 5301-020	06	020	14	37 x 0.25	1.68	1.82
VG 95218T020H079	FX 5301-030	07	030	12	37 x 0.32	2.12	2.28

VG Reference	NEXANS Part Number	Finished Wire			
		Diameter		Weight Max. (g/m)	Maximum DC resistance at 20°C (68°F) (Ohms/Km)
		Min. (mm)	Max. (mm)		
VG 95218T020H019	FX 5301-002	0.98	1.08	3.23	106
VG 95218T020H02A	FX 5301-004	1.12	1.24	4.59	55.3
VG 95218T020H039	FX 5301-006	1.33	1.47	7.29	31
VG 95218T020H049	FX 5301-010	1.58	1.72	10.69	19.6
VG 95218T020H059	FX 5301-012	1.81	1.97	14.86	13.6
VG 95218T020H069	FX 5301-020	2.07	2.19	19.43	10.2
VG 95218T020H079	FX 5301-030	2.53	2.69	30.83	6.4

(1) For information only.

Identification

Colors :

White (except size 004 in pale blue)

Marking :

VG95218T020H **£ F 0241 ++ AC

with :

** = Dash number

£ = color (9=white, A=pale blue)

F0241 = Manufacturer's cage code

++ = Year of production (i.e. 08 = 2008)

AC = Cable code according to TR 6058

FX 5303

VG 95218-22 type E

Single core shielded and jacketed

VG 95218-23 type D

Multicore shielded and jacketed

Applications

Designed for general purpose aircraft wiring applications.

600 Volts RMS

Construction

CORE

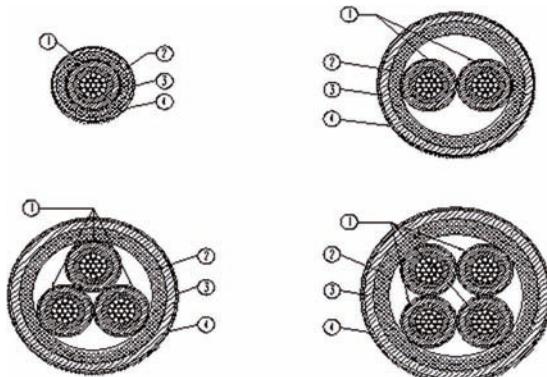
1- FX 5301

SCREEN

2- Silver plated copper braided screen

JACKET

3- Polyimide tapes
4- UV laser markable FEP lacquer top coat



Other characteristics

Operating frequency : up to 2000 Hz

Standards

VG 95218-2 (may 1998)

VG 95218-22 (october 1999)

VG 95218-23 (october 1999)



-65°C to +150°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Arc tracking
resistant



Very good
resistance to
aircraft fluids



RoHs

FX 5303

VG reference	NEXANS part number	Nbr. of cores	Dash number (VG)	Size code (NEXANS)	AWG	Diam.of screen strand (mm)	Finished Wire			
							Diameter		Weight Max. (g/m)	Max. DC Resistance at 20°C (68°F) (Ohms/Km)
							Min. (mm)	Max. (mm)		
VG 95218T022E001	FX 5303-1-002	1	001	002	24	0.08	1.52	1.68	7.04	106
VG 95218T022E002	FX 5303-1-004	1	002	004	22	0.08	1.66	1.85	8.85	55.3
VG 95218T022E003	FX 5303-1-006	1	003	006	20	0.08	1.87	2.08	12.2	31
VG 95218T022E004	FX 5303-1-010	1	004	010	18	0.10	2.21	2.39	17.56	19.6
VG 95218T022E005	FX 5303-1-012	1	005	012	16	0.10	2.44	2.64	22.59	13.6
VG 95218T022E006	FX 5303-1-020	1	006	020	14	0.10	2.70	2.86	27.94	10.2
VG 95218T022E007	FX 5303-1-030	1	007	030	12	0.10	3.16	3.36	41.06	6.4
VG 95218T023D001	FX 5303-2-002	2	001	002	24	0.08	2.47	2.73	12.27	109.2
VG 95218T023D002	FX 5303-2-004	2	002	004	22	0.08	2.76	3.05	15.77	57
VG 95218T023D003	FX 5303-2-006	2	003	006	20	0.10	3.25	3.59	23.97	31.9
VG 95218T023D004	FX 5303-2-010	2	004	010	18	0.10	3.76	4.08	32.29	30.2
VG 95218T023D005	FX 5303-2-012	2	005	012	16	0.10	4.22	4.58	42.20	14.0
VG 95218T023D006	FX 5303-2-020	2	006	020	14	0.10	4.73	5.03	52.81	10.5
VG 95218T023D007	FX 5303-2-030	2	007	030	12	0.10	5.66	6.02	78.85	6.6
VG 95218T023D008	FX 5303-3-002	3	008	002	24	0.08	2.61	2.89	16.44	109.2
VG 95218T023D009	FX 5303-3-004	3	009	004	22	0.08	2.93	3.23	21.45	57
VG 95218T023D010	FX 5303-3-006	3	010	006	20	0.10	3.45	3.81	32.85	31.9
VG 95218T023D011	FX 5303-3-010	3	011	010	18	0.10	4.00	4.34	44.90	30.2
VG 95218T023D012	FX 5303-3-012	3	012	012	16	0.10	4.50	4.88	59.32	14.0
VG 95218T023D013	FX 5303-3-020	3	013	020	14	0.10	5.04	5.36	74.82	10.5
VG 95218T023D014	FX 5303-3-030	3	014	030	12	0.10	6.05	6.43	113.00	6.6
VG 95218T023D015	FX 5303-4-002	4	015	002	24	0.08	2.86	3.16	20.61	109.2
VG 95218T023D016	FX 5303-4-004	4	016	004	22	0.08	3.20	3.54	27.13	57
VG 95218T023D017	FX 5303-4-006	4	017	006	20	0.10	3.78	4.18	41.74	31.9
VG 95218T023D018	FX 5303-4-010	4	018	010	18	0.10	4.41	4.77	57.51	30.2
VG 95218T023D019	FX 5303-4-012	4	019	012	16	0.10	4.96	5.38	76.43	14.0
VG 95218T023D020	FX 5303-4-020	4	020	020	14	0.10	5.58	5.92	96.83	10.5
VG 95218T023D021	FX 5303-4-030	4	021	030	12	0.10	6.69	7.11	147.14	6.6

Identification

Single core shielded and jacketed (type E)

Core color :

White (with exception of size 004 : Pale Blue)

Marking on Jacket :

White (with exception of size 004 : Pale Blue)

Marking VG95218T022E*** F 0241 ++ GE

with :

*** = Dash number (VG)

F0241= Manufacturer's cage code

++= Year of production (i.e. 08 = 2008)

##= Cable code according to TR 6058 : GF=2 cores - GG=3 cores - GH=4 cores

Multicore shielded and jacketed (type D)

Core Identification :

White (except size 004 : Pale Blue)

Marking with colored arabic digits printed on the core and a dash placed under-neath it. :

Core number 1 : digit = 1

Core number 2 : digit = 2, a.s.o.

Marking on Jacket :

White (with exception of size 004 : Pale Blue)

Marking VG95218T023D*** F 0241 ++ ##

B080 SPECIFICATIONS

■ Applications

Bombardier specifications for general purpose aircraft wiring application.

600 V

■ Construction

CONDUCTOR

Tin, Silver, Nickel plating with copper and high strength copper-alloy

INSULATION

Extruded XL-ETFE single and dual layer thin and medium walls

■ Temperature Rating

Tin coated: 150°C

Silver or Nickel coated: 200°C

B080 SPECIFICATIONS

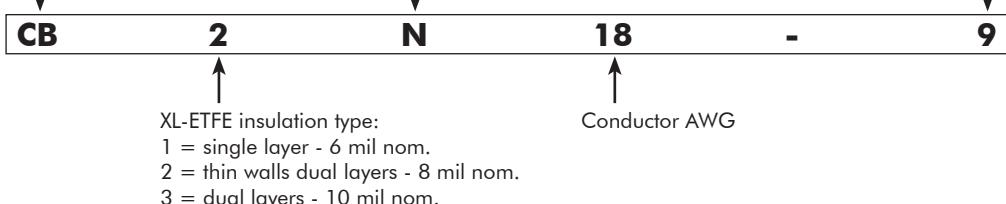
Bombardier #(*)	Nexans #	Conductor AWG	Conductor stranding	Conductor Type	Diameter (inch)		Weight (lbs/1000ft)	
					Nom.	Max.	Nom.	Max.
B0801150-20-*	CB2T20-*	20	19/32	T	0.0540	0.0557	4.42	4.57
B0801150-22-*	CB2T22-*	22	19/34	T	0.0455	0.0472	2.90	3.06
B0801190-22-*	CB2K22-*	22	19/34	K	0.0438	0.0455	2.90	3.06
B0801190-24-*	CB2K24-*	24	19/36	K	0.0395	0.0412	1.98	2.13
B0801200-22-*	CB2V22-*	22	19/34	V	0.0455	0.0472	2.90	3.06
B0801220-2-*	CB2N2-*	2	665/30	N	0.3830	0.3970	220.9	240.00
B0801220-8-*	CB2N8-*	8	133/29	N	0.1960	0.2030	57.98	59.90
B0801220-10-*	CB2N10-*	10	37/26	N	0.1290	0.1328	31.05	32.13
B0801220-12-*	CB2N12-*	12	37/28	N	0.1047	0.1074	19.58	20.30
B0801220-16-*	CB2N16-*	16	19/29	N	0.0710	0.0730	8.44	8.70
B0801220-18-*	CB2N18-*	18	19/30	N	0.0635	0.0654	6.63	6.90
B0801220-20-*	CB2N20-*	20	19/32	N	0.0540	0.0557	4.42	4.57
B0801220-22-*	CB2N22-*	22	19/34	N	0.0455	0.0472	2.90	3.06

(*) More constructions available on demand.

Crosslink
Bombardier

Conductor Type:
 T = Tin Plated Copper
 S = Silver Plated Copper
 N = Nickel Plated Copper
 V = Silver Plated High Strength Copper Alloy
 K = Nickel Plated High Strength Copper Alloy

Color code, see military
selection guideline



B080 SPECIFICATIONS

Bombardier #(*)	Nexans #	Conductor AWG	# of core	Shield type	Shield strand AWG	Diameter (inch)		Weight (lbs/1000ft)	
						N/A	Max.	Nom.	Max.
B0801151-18	CB2T18A2U00	18	2	U	N/A	0.1270	0.1300		13.82
B0801162-10	CB2S10A3U00	10	3	U	N/A	0.2770	0.2870		98.30
B0801171-22	CB1T22A2TF23	22	2	TF	38	0.1050	0.1090		9.20
B0801172-22	CB1T22A3TF23	22	3	TF	38	0.1130	0.1180		12.72
B0801176-22	CB1T22A2TS23	22	2	TS	38	0.1140	0.1190		11.60
B0801222-12	CB2N12A3U00	12	3	U	N/A	0.2260	0.2320		61.19
B0801222-8	CB2N8A3U00	8	3	U	N/A	0.4230	0.4380		181.00
B0801236-22	CB2N22A2NS23	22	2	NS	38	0.1220	0.1270		12.50
B0801346-24	CB3K24A2NS23	24	2	NS	38	0.1180	0.1220		10.77
B0801347-24	CB3K24A3NS23	24	3	NS	38	0.1240	0.1310		14.15
B0801376-22	CB1N-	22	2	NS	38	0.1140	0.1190		11.60
B0801403-22	CB1T22U3TS23	22	3	TS	38	0.1220	0.1270		15.39
B0801436-24	CB1K24A2NS23	24	2	NS	38	0.1010	0.1050		8.91
B0801437-24	CB1K24A3NS23	24	3	NS	38	0.1060	0.1130		11.67
B0801671-22	CB1N22A2NF23	22	2	NF	38	0.1050	0.1090		9.20
B0801690-22	CB1K22A1NF23	22	1	NF	38	0.0620	0.0660		4.97
B0801690-24	CB1K24A1NF23	24	1	NF	38	0.0560	0.0600		3.82
B0801691-22	CB1K22A2NF23	22	2	NF	38	0.1050	0.1090		9.20
B0801691-24	CB1K24A2NF23	24	2	NF	38	0.0930	0.0970		6.95
B0801692-24	CB1K24A3NF23	24	3	NF	38	0.1000	0.1050		9.45

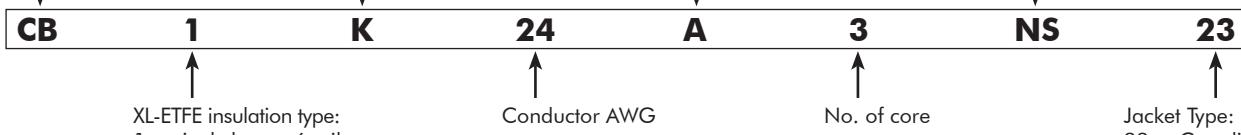
(*) More constructions available on demand.

Crosslink
Bombardier

Conductor Type:
 T = Tin Plated Copper
 S = Silver Plated Copper
 N = Nickel Plated Copper
 V = Silver Plated High Strength Copper Alloy
 K = Nickel Plated High Strength Copper Alloy

Marking Method:
 A = M22759 Method A table
 3-2 with shield coverage
 >=85%
 U = Other with shield coverage >= 90%

Shield Type:
 U = No shield
 TF = Tin Plated Copper Flat
 TS = Tin Plated Copper Round
 SS = Silver Plated Copper Round
 SF = Silver Plated Copper Flat
 NS = Nickel Plated Copper Round
 NF = Nickel Plated Copper Flat
 Other shield types available



XL-ETFE insulation type:
 1 = single layer - 6 mil nom.
 2 = thin walls dual layers - 8 mil nom.
 3 = dual layers - 10 mil nom.

Conductor AWG

No. of core

Jacket Type:
 23 = Crosslink ETFE
 00 = No jacket

BMS 13-60

**Arc Resistant, 600V, Annealed
Copper, Copper Alloy,
and Aluminium Wire and Cable**

Applications

Boeing specifications for general purpose aircraft wiring application.

600 V

Construction

CONDUCTOR

Tin, Silver, Nickel plating with copper and high strength copper-alloy
Aluminium

Temperature Rating

Tin coated: 150°C
Silver coated: 200°C
Nickel coated: 260°C
Aluminum: 175°C

INSULATION

PTFE/POLYIMIDE TAPE WRAP

BMS 13-60

Type	Class		Wire size (AWG)		Insulation thickness (mil)	Conductor		Shield				Jacket		Temperature rating (degrees C)	
	Min	Max	Min	Max		Material	Coating	Material	Coating	Shape	Nbr	Material	Nbr	Min	Max
1	1	8	22	4/0	8	Annealed Copper	Tin							-65	150
2	1	4	22	10	8	Annealed Copper	Tin	Copper Braid	Tin	Round	1	Polymide/PTFE	1	-65	150
3	2	4	22	10	8	Annealed Copper	Tin					Polymide/PTFE	1	-65	150
4	1	8	24	16	8	High Strength Copper Alloy	Nickel							-65	260
5	1	4	24	16	8	High Strength Copper Alloy	Nickel	Copper Braid	Tin	Round	1	Polymide/PTFE	1	-65	150
			14	10	8	Annealed Copper									
6	2	4	24	16	8	High Strength Copper Alloy	Nickel					Polymide/PTFE	1	-65	260
7	1	8	22	4/0	19	Annealed Copper	Nickel							-65	260
8	1	6	22	10	19	Annealed Copper	Nickel	Copper Braid	Nickel	Round	1	Polymide/PTFE	1	-65	260
9	2	4	22	10	19	Annealed Copper	Nickel					Polymide/PTFE	1	-65	260
	5	8	22	18											
10	1	8	24	16	19	High Strength Copper Alloy	Nickel							-65	260
11	1	6	24	16	19	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	Round	1	Polymide/PTFE	1	-65	260
12	2	4	24	16	19	High Strength Copper Alloy	Nickel					Polymide/PTFE	1	-65	260
13	1	6	22	10	6	Annealed Copper	Tin	Copper Braid	Tin	Round	1	Polymide/PTFE	1	-65	150
14	2	6	22	10	6	Annealed Copper	Tin					Polymide/PTFE	1	-65	150
15	1	6	24	16	6	High Strength Copper Alloy	Nickel	Copper Braid	Tin	Round	1	Polymide/PTFE	1	-65	150
			14	10	6	Annealed Copper									
16	2	6	24	16	6	High Strength Copper Alloy	Nickel					Polymide/PTFE	1	-65	260
17	1	6	22	10	6	Annealed Copper	Nickel	Copper Braid	Nickel	Round	1	Polymide/PTFE	1	-65	260
18	2	6	22	10	6	Annealed Copper	Nickel					Polymide/PTFE	1	-65	260
19	1	8	22	4/0	8	Annealed Copper	Nickel							-65	260
20	1	5	22	10	8	Annealed Copper	Nickel	Copper Braid	Nickel	Round	1	Polymide/PTFE	1	-65	260
21	2	4	22	10	8	Annealed Copper	Nickel					Polymide/PTFE	1	-65	260
22	1	3	8	4/0	19	Aluminium								-65	175
23	10	10	18	18	8	High Strength Copper Alloy	Nickel					Polymide/PTFE	1	-65	260
24	7	7	20	20	8	Annealed Copper	Tin	Copper Braid	Nickel	Round	1	Polymide/PTFE	1	-65	150

BMS 13-60

Type	Class		Wire size (AWG)		Insulation thickness (mil)	Conductor		Shield				Jacket		Temperature rating (degrees C)	
	Min	Max	Min	Max		Material	Coating	Material	Coating	Shape	Nbr	Material	Nbr	Min	Max
25	1	4	24	16	8	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	Round	2	Polymide/PTFE	1	-65	260
26	1	3	24	16	8	High Strength Copper Alloy	Nickel	Copper Braid	Tin	Flat	2	Polymide/PTFE	2	-65	150
27	1	3	22	16	8	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	Round	2	Polymide/PTFE	2	-65	260
28	1	8	22	10	6	Annealed Copper	Tin							-65	150
29	1	8	22	10	6	Annealed Copper	Nickel							-65	260
30	1	8	24	16	6	High Strength Copper Alloy	Nickel							-65	260
31	1	6	22	16	6	Annealed Copper	Tin	Copper Braid	Tin	Flat	1	Polymide/PTFE	1	-65	150
32	1	6	24	16	6	High Strength Copper Alloy	Nickel	Copper Braid	Tin	Flat	1	Polymide/PTFE	1	-65	150
33	1	6	22	16	8	Annealed Copper	Tin	Copper Braid	Tin	Flat	1	Polymide/PTFE	1	-65	150
34	1	6	24	16	8	High Strength Copper Alloy	Nickel	Copper Braid	Tin	Flat	1	Polymide/PTFE	1	-65	150
35	1	8	26	16	6	High Strength Copper Alloy	Silver							-65	200
36	1	6	26	16	6	High Strength Copper Alloy	Silver	Copper Braid	Silver	Flat	1	Polymide/PTFE	1	-65	200
37	1	6	24	16	6	High Strength Copper Alloy	Nickel	Copper Braid	Silver	Flat	1	Polymide/PTFE	1	-65	200
38	1	6	22	10	6	Annealed Copper	Nickel	Copper Braid	Silver	Flat	1	Polymide/PTFE	1	-65	200
39	1	8	26	12	8	High Strength Copper Alloy	Silver							-65	200
40	1	6	26	16	8	High Strength Copper Alloy	Silver	Copper Braid	Silver	Flat	1	Polymide/PTFE	1	-65	200
41	1	6	24	16	8	High Strength Copper Alloy	Nickel	Copper Braid	Silver	Flat	1	Polymide/PTFE	1	-65	200
42	1	6	22	10	8	Annealed Copper	Nickel	Copper Braid	Silver	Flat	1	Polymide/PTFE	1	-65	200
43	1	6	22	10	19	Annealed Copper	Nickel	Copper Braid	Nickel	Flat	1	Polymide/PTFE	1	-65	260
44	1	4	22	16	10	Annealed Copper	Nickel							-65	260
45	1	4	24	20	10	High Strength Copper Alloy	Nickel							-65	260
46	1	4	24	16	8	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	Round	1	Polymide/PTFE	1	-65	260
47	1	4	20	10	8	Annealed Copper	Nickel	Copper Braid	Nickel	Round	2	Polymide/PTFE	1	-65	260

BMS 13-60

Type	Class		Wire size (AWG)		Insulation thickness (mil)	Conductor		Shield				Jacket		Temperature rating (degrees C)	
	Min	Max	Min	Max		Material	Coating	Material	Coating	Shape	Nbr	Material	Nbr	Min	Max
48	1	4	24	16	6	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	Round	2	Polymide/PTFE	1	-65	260
49	1	4	22	10	6	Annealed Copper	Nickel	Copper Braid	Nickel	Round	2	Polymide/PTFE	1	-65	260
50	1	4	24	16	6	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	Round	1	Polymide/PTFE	1	-65	260
51	1	4	24	16	6	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	Flat	1	Polymide/PTFE	1	-65	260
52	1	4	22	10	6	Annealed Copper	Nickel	Copper Braid	Nickel	Flat	1	Polymide/PTFE	1	-65	260
53	1	3	22	16	6	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	Round	2	Polymide/PTFE	2	-65	260
54	1	4	22	10	19	Annealed Copper	Nickel	Copper Braid	Nickel	Round	2	Polymide/PTFE	1	-65	260
55	2	2	24	22	8	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	Round	2	Polymide/PTFE	1	-65	260
56	1	4	22	10	19	Aluminium								-65	175

SMOOTH COMPOSITE WIRE & CABLES DSCC

■ Applications

Designed for general purpose military aircraft wiring application.

600 V

■ Construction

CONDUCTOR

Tin, Silver & Nickel plating with copper and high strength copper-alloy

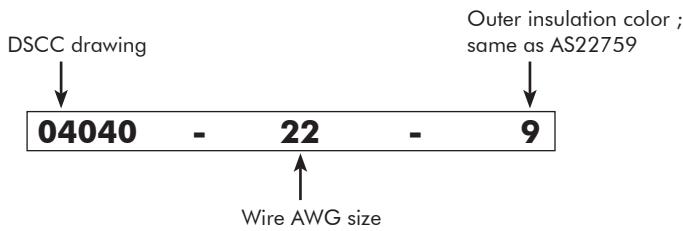
■ Temperature Rating

Tin coated: 150°C
Silver coated: 200°C
Nickel coated: 260°C

INSULATION

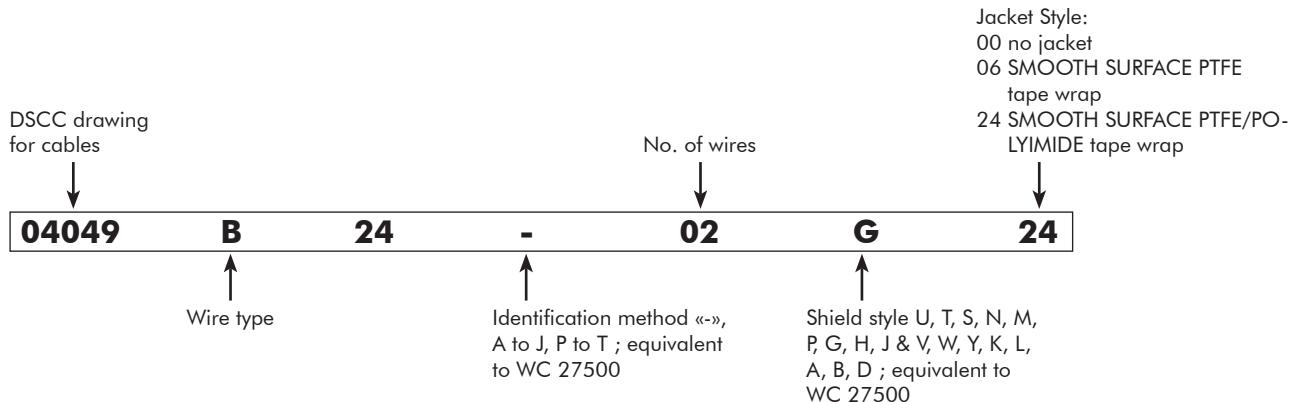
Smooth surface PTFE/POLYIMIDE TAPE WRAP.

Part Identifying Number wires



DSCC drawing	"Equivalent AS22759 drawing"	AWG range	Temperature rating
04034	AS22759/180	26-10	150 °C
04035	AS22759/181	26-20	200 °C
04036	AS22759/182	26-20	260 °C
04037	AS22759/183	8-4/0	200 °C
04038	AS22759/184	8-4/0	260 °C
04039	AS22759/185	8-4/0	150 °C
04040	AS22759/186	26-4/0	200 °C
04041	AS22759/187	26-4/0	260 °C
04042	AS22759/188	26-4/0	150 °C
04043	AS22759/189	26-20	200 °C
04044	AS22759/190	26-20	260 °C
04045	AS22759/191	26-10	200 °C
04046	AS22759/192	26-10	260 °C

Part Identifying Number cables



DSCC Wire type	Equivalent WC 27500 type	DSCC drawing	Description	AWG range
A	DB	04034	Light weight tin coated copper	26-10
B	DC	04035	Light weight silver coated copper alloy	26-20
C	DE	04036	Light weight nickel coated copper alloy	26-20
M	DP	04045	Light weight silver coated copper	26-10
N	DR	04046	Light weight nickel coated copper	26-10
P	N/A	04047	Light weight 30, 28, 26 awg	30-26
G	DJ	04040	Normal weight silver coated copper	26-4/0
H	DK	04041	Normal weight nickel coated copper	26-4/0
J	DL	04042	Normal weight tin coated copper	26-4/0
K	DM	04043	Normal weight silver coated copper alloy	26-20
L	DN	04044	Normal weight nickel coated copper alloy	26-20
Q	N/A	04048	Normal weight 26, 20, 18, 16 awg	26-16
D	DF	04037	Normal weight silver coated copper with meta-aramid fiber braid	8-4/0
E	DG	04038	Normal weight nickel coated copper with meta-aramid fiber braid	8-4/0
F	DH	04039	Normal weight tin coated copper with meta-aramid fiber braid	8-4/0

Temperature rating

Minimum between DSCC wire type rating and shield style rating per WC27500.

SMOOTH COMPOSITE WIRE SAE AS22759

AS22759/180, AS22759/181 and AS22759/182

Applications

Designed for general purpose aircraft wiring application.
These light weight thin wall constructions can be used only
with additional protection, or in protected area, or inside a
cable with a shield or a jacket.

600 V

Construction

CONDUCTOR

AS22759/180: Tin coated copper

AS22759/181: Silver coated high strength copper alloy
26 AWG Ultra-High strength copper alloy

AS22759/182: Nickel coated high strength copper alloy
26 AWG Ultra-High strength copper alloy



INSULATION

Smooth surface

PTFE/POLYIMIDE TAPE WRAP
(5.8 - 6.7 NOM.)

Temperature Rating

AS22759/180: 150°C

AS22759/181: 200°C

AS22759/182: 260°C

DSCC Equivalent

AS22759/180: 04034

AS22759/181: 04035

AS22759/182: 04036



AS22759/180: -65° to 150°C
AS22759/181: -65° to 200°C
AS22759/182: -65° to 260°C



AS22759/180: DB
AS22759/181: DC
AS22759/182: DE



Arc resistant



Flame resistant



RoHs

AS22759/180

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
759180-26	26	19*38	0.030	0.034	0.76	0.86	1.45		
759180-24	24	19*36	0.034	0.038	0.86	0.97	2.00		
759180-22	22	19*34	0.040	0.043	1.01	1.09	2.95		
759180-20	20	19*32	0.048	0.051	1.21	1.29	4.45		
759180-18	18	19*30	0.056	0.060	1.42	1.52	6.65		
759180-16	16	19*29	0.063	0.067	1.60	1.70	8.35		
759180-14	14	19*27	0.076	0.080	1.93	2.03	12.80		
759180-12	12	37*28	0.096	0.100	2.43	2.54	20.30		
759180-10	10	37*26	0.119	0.123	3.02	3.12	31.40		

AS22759/181

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
759181-26	26(*)	19*38	0.030	0.034	0.76	0.86	1.46		
759181-24	24	19*36	0.034	0.038	0.86	0.97	1.99		
759181-22	22	19*34	0.040	0.043	1.01	1.09	2.95		
759181-20	20	19*32	0.048	0.051	1.21	1.29	4.44		

(*) Conductor shall be ultra-high strength copper alloy

AS22759/182

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
759182-26	26(*)	19*38	0.030	0.034	0.76	0.86	1.45		
759182-24	24	19*36	0.034	0.038	0.86	0.97	2.00		
759182-22	22	19*34	0.040	0.043	1.01	1.09	2.95		
759182-20	20	19*32	0.048	0.051	1.21	1.29	4.45		

(*) Conductor shall be ultra-high strength copper alloy

Additional information

Light weight

Arc Resistant (greatly improved compare to non smooth technology)

Fluid Resistant

Abrasion Resistant

UV Laser markable

Smooth outer surface

SMOOTH COMPOSITE WIRE SAE AS22759

AS22759/186, AS22759/187 and AS22759/188

Applications

Designed for general purpose aircraft wiring application for 26 AWG to 10 AWG.

Designed for power transmission for 8 AWG and larger.

These constructions can be used in protected area, airframe and swamp area, or inside a cable.

A522759/187 can be used in nacelles & engines high temperature area.

600 V

Construction

CONDUCTOR

AS22759/186: Silver coated copper

AS22759/187: Nickel coated copper

AS22759/188: Tin coated copper

INSULATION

Smooth surface

PTFE/POLYIMIDE TAPE WRAP

(7.4 - 16.2 MIL NOM.)



Temperature Rating

AS22759/186: 200°C

AS22759/187: 260°C

AS22759/188: 150°C

DSCC Equivalent

AS22759/186: 04040

AS22759/187: 04041

AS22759/188: 04042



AS22759/186: -65° to 200°C
AS22759/187: -65° to 260°C
AS22759/188: -65° to 150°C



AS22759/186: DJ
AS22759/187: DK
AS22759/188: DL



Arc resistant



Flame resistant



RoHS

AS22759/186

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire				Weight Max. (LBS/1000 ft)	
			Diameter		Min. (inch)	Max. (inch)		
			Min. (mm)	Max. (mm)				
759186-26	26	19*38	0.033	0.037	0.84	0.94	1.55	
759186-24	24	19*36	0.038	0.042	0.97	1.06	2.20	
759186-22	22	19*34	0.043	0.047	1.09	1.19	3.10	
759186-20	20	19*32	0.051	0.055	1.29	1.39	4.70	
759186-18	18	19*30	0.061	0.065	1.54	1.65	6.90	
759186-16	16	19*29	0.068	0.073	1.72	1.85	8.80	
759186-14	14	19*27	0.081	0.086	2.05	2.18	13.40	
759186-12	12	37*28	0.100	0.105	2.54	2.66	20.40	
759186-10	10	37*26	0.122	0.127	3.09	3.22	31.60	
759186-8	8	133*29	0.180	0.188	4.57	4.77	58.5	
759186-6	6	133*27	0.219	0.229	5.56	5.81	88.9	
759186-4	4	133*25	0.276	0.288	7.01	7.31	144.0	
759186-2	2	665*30	0.344	0.364	8.73	9.24	226.0	
75986-1	1	817*30	0.388	0.408	9.85	10.36	292.0	
759186-01	0	1045*30	0.420	0.450	10.66	11.43	352.0	
759186-02	00	1330*30	0.475	0.505	12.06	12.82	448.0	

AS22759/187

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire				Weight Max. (LBS/1000 ft)	
			Diameter		Min. (inch)	Max. (inch)		
			Min. (mm)	Max. (mm)				
759187-26	26	19*38	0.033	0.037	0.84	0.94	1.55	
759187-24	24	19*36	0.038	0.042	0.97	1.06	2.20	
759187-22	22	19*34	0.043	0.047	1.09	1.19	3.10	
759187-20	20	19*32	0.051	0.055	1.29	1.39	4.65	
759187-18	18	19*30	0.061	0.065	1.54	1.65	6.85	
759187-16	16	19*29	0.068	0.073	1.72	1.85	8.70	
759187-14	14	19*27	0.081	0.086	2.05	2.18	13.30	
759187-12	12	37*28	0.100	0.105	2.54	2.66	20.20	
759187-10	10	37*26	0.122	0.127	3.09	3.22	31.60	
759187-8	8	133*29	0.180	0.188	4.57	4.77	58.5	
759187-6	6	133*27	0.219	0.229	5.56	5.81	88.9	
759187-4	4	133*25	0.276	0.288	7.01	7.31	144.0	
759187-2	2	665*30	0.344	0.364	8.73	9.24	226.0	
759187-1	1	817*30	0.388	0.408	9.85	10.36	292.0	
759187-01	0	1045*30	0.420	0.450	10.66	11.43	352.0	
759187-02	00	1330*30	0.475	0.505	12.06	12.82	448.0	

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
759188-26	26	19*38	0.033	0.037	0.84	0.94	1.55		
759188-24	24	19*36	0.038	0.042	0.97	1.06	2.20		
759188-22	22	19*34	0.043	0.047	1.09	1.19	3.10		
759188-20	20	19*32	0.051	0.055	1.29	1.39	4.65		
759188-18	18	19*30	0.061	0.065	1.54	1.65	6.85		
759188-16	16	19*29	0.068	0.073	1.72	1.85	8.70		
759188-14	14	19*27	0.081	0.086	2.05	2.18	13.30		
759188-12	12	37*28	0.100	0.105	2.54	2.66	20.20		
759188-10	10	37*26	0.122	0.127	3.09	3.22	32.20		
759188-8	8	133*29	0.180	0.188	4.57	4.77	58.5		
759188-6	6	133*27	0.219	0.229	5.56	5.81	88.9		
759188-4	4	133*25	0.276	0.288	7.01	7.31	144.0		
759188-2	2	665*30	0.344	0.364	8.73	9.24	226.0		
759188-1	1	817*30	0.388	0.408	9.85	10.36	292.0		
759188-01	0	1045*30	0.420	0.450	10.66	11.43	352.0		
759188-02	00	1330*30	0.475	0.505	12.06	12.82	448.0		

■ Additional information

Arc Resistant (greatly improved compare to non smooth technology)

Fluid Resistant

Abrasion Resistant

UV Laser markable

Smooth outer surface

SMOOTH COMPOSITE WIRE SAE AS22759

AS22759/189 and AS22759/190

Applications

Designed for general purpose aircraft wiring application.
These constructions can be used in protected area, airframe
area and swamp area, or inside a cable.
AS22759/190 can be used in nacelles and engines high
temperature area.

600 V

Construction

CONDUCTOR

AS22759/189: Silver coated high strength copper alloy
26 AWG Ultra-High strength copper alloy
AS22759/190: Nickel coated high strength copper alloy
26 AWG Ultra-High strength copper alloy

INSULATION

Smooth surface
PTFE/POLYIMIDE TAPE WRAP (7.4 NOM.)



Temperature Rating

AS22759/189: 200°C
AS227591/90: 260°C

DSCC Equivalent

AS22759/189: 04043
AS22759/190: 04044



AS22759/189: -65° to 200°C
AS22759/190: -65° to 260°C



AS22759/189: DM
AS22759/190: DN



Arc resistant



Flame resistant



RoHS

AS22759/189

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
759189-26	26(*)	19*38	0.033	0.037	0.84	0.94	1.60		
759189-24	24	19*36	0.038	0.042	0.97	1.06	2.20		
759189-22	22	19*34	0.043	0.047	1.09	1.19	3.10		
759189-20	20	19*32	0.051	0.055	1.29	1.39	4.65		

(*) Conductor shall be ultra-high strength copper alloy

AS22759/190

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
759190-26	26(*)	19*38	0.033	0.037	0.84	0.94	1.60		
759190-24	24	19*36	0.038	0.042	0.97	1.06	2.20		
759190-22	22	19*34	0.043	0.047	1.09	1.19	3.10		
759190-20	20	19*32	0.051	0.055	1.29	1.39	4.65		

(*) Conductor shall be high strength copper alloy

Additional information

Arc Resistant (greatly improved compare to non smooth technology)

Fluid Resistant

Abrasion Resistant

UV Laser markable

Smooth outer surface

SMOOTH COMPOSITE WIRE SAE AS22759

AS22759/191 and AS22759/192

Applications

Designed for general purpose aircraft wiring application.
These light weight thin wall constructions can be used only
with additional protection, or in protected area, or inside a
cable with a shield or a jacket.

600 V

Construction

CONDUCTOR

AS22759/191: Silver coated copper
AS22759/192: Nickel coated copper

INSULATION

Smooth surface
PTFE/POLYIMIDE TAPE WRAP
(5.8 - 6.7 NOM.)



Temperature Rating

AS22759/191: 200°C
AS22759/192: 260°C

DSCC Equivalent

AS22759/191: 04045
AS22759/192: 04046



AS22759/191: -65° to 200°C
AS22759/192: -65° to 260°C



AS22759/191: DP
AS22759/192: DR



Arc resistant



Flame resistant



RoHS

AS22759/191

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
759191-26	26	19*38	0.030	0.034	0.76	0.86	1.45		
759191-24	24	19*36	0.034	0.038	0.86	0.97	2.00		
759191-22	22	19*34	0.040	0.043	1.01	1.09	2.96		
759191-20	20	19*32	0.048	0.051	1.21	1.29	4.50		
759191-18	18	19*30	0.056	0.060	1.42	1.52	6.70		
759191-16	16	19*29	0.063	0.067	1.6	1.70	8.40		
759191-14	14	19*27	0.076	0.080	1.93	2.03	12.90		
759191-12	12	37*28	0.096	0.100	2.43	2.54	19.90		
759191-10	10	37*26	0.119	0.123	3.02	3.12	30.80		

AS22759/192

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
759192-26	26	19*38	0.030	0.034	0.76	0.86	1.45		
759192-24	24	19*36	0.034	0.038	0.86	0.97	2.00		
759192-22	22	19*34	0.040	0.043	1.01	1.09	2.95		
759192-20	20	19*32	0.048	0.051	1.21	1.29	4.45		
759192-18	18	19*30	0.056	0.060	1.42	1.52	6.65		
759192-16	16	19*29	0.063	0.067	1.6	1.70	8.35		
759192-14	14	19*27	0.076	0.080	1.93	2.03	12.80		
759192-12	12	37*28	0.096	0.100	2.43	2.54	19.70		
759192-10	10	37*26	0.119	0.123	3.02	3.12	30.80		

Additional information

Light weight

Arc Resistant (greatly improved compare to non smooth technology)

Fluid Resistant

Abrasion Resistant

UV Laser markable

Smooth outer surface

EXTRUDED PTFE MINERAL FILLED SAE AS22759

AS22759/5 & AS22759/6

Applications

Designed for general purpose aircraft wiring application.
These constructions can be used in protected area, airframe
area, swamp area and high vibration area, or inside a cable.
A522759/6 can be used in nacelles & engines high
temperature area.

600 V

Construction

CONDUCTOR

AS22759/5: Silver coated conductor
AS22759/6: Nickel coated conductor

INSULATION

25 to 40 mil nominal wall thickness
Extruded PTFE mineral filled



Temperature Rating

AS22759/5: 200°C
AS22759/6: 260°C



AS22759/5: -65° to 200°C
AS22759/6: -65° to 260°C



AS22759/5: VA
AS22759/6: WA



RoHs

AS22759/5

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75905-24	24	19*36	0.070	0.080	1.78	2.03	6.0		
75905-22	22	19*34	0.080	0.090	2.03	2.29	8.0		
75905-20	20	19*32	0.090	0.100	2.29	2.54	10.0		
75905-18	18	19*30	0.105	0.115	2.67	2.92	14.0		
75905-16	16	19*29	0.120	0.130	3.05	3.30	18.0		
75905-14	14	19*27	0.136	0.150	3.45	3.81	25.0		
75905-12	12	19*25	0.153	0.167	3.89	4.24	34.5		
75905-10	10	37*26	0.172	0.186	4.37	4.72	48.0		

AS22759/6

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75906-24	24	19*36	0.070	0.080	1.78	2.03	6.0		
75906-22	22	19*34	0.080	0.090	2.03	2.29	8.0		
75906-20	20	19*32	0.090	0.100	2.29	2.54	10.0		
75906-18	18	19*30	0.105	0.115	2.67	2.92	14.0		
75906-16	16	19*29	0.120	0.130	3.05	3.30	18.0		
75906-14	14	19*27	0.136	0.150	3.45	3.81	25.0		
75906-12	12	19*25	0.153	0.167	3.89	4.24	34.5		
75906-10	10	37*26	0.172	0.186	4.37	4.72	48.0		

Additional information

Abrasion Resistant
Fluid Resistant

EXTRUDED PTFE MINERAL FILLED SAE AS22759

AS22759/7 & AS22759/8

Applications

Designed for general purpose aircraft wiring application.
These constructions can be used in protected area, airframe
area and swamp area, or inside a cable.

600 V

Construction

CONDUCTOR

AS22759/7: Silver coated conductor
AS22759/8: Nickel coated conductor

INSULATION

20 to 35 mil nominal wall thickness
Extruded PTFE mineral filled



Temperature Rating

AS22759/7: 200°C
AS22759/8: 260°C



AS22759/7: -65° to 200°C
AS22759/8: -65° to 260°C



AS22759/7: TA
AS22759/8: SA



RoHS

AS22759/7

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75907-24	24	19*36	0.060	0.064	1.52	1.62	4.3		
75907-22	22	19*34	0.071	0.075	1.80	1.90	6.0		
75907-20	20	19*32	0.080	0.084	2.03	2.13	8.1		
75907-18	18	19*30	0.090	0.094	2.28	2.38	11.0		
75907-16	16	19*29	0.099	0.105	2.51	2.66	13.8		
75907-14	14	19*27	0.112	0.118	2.84	2.99	18.6		
75907-12	12	19*25	0.131	0.137	3.32	3.47	28.5		
75907-10	10	37*36	0.154	0.162	3.91	3.86	41.8		

AS22759/8

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75908-24	24	19*36	0.060	0.064	1.52	1.62	4.3		
75908-22	22	19*34	0.071	0.075	1.80	1.90	6.0		
75908-20	20	19*32	0.080	0.084	2.03	2.13	8.1		
75908-18	18	19*30	0.090	0.094	2.28	2.38	11.0		
75908-16	16	19*29	0.099	0.105	2.51	2.66	13.8		
75908-14	14	19*27	0.112	0.118	2.84	2.99	18.6		
75908-12	12	19*25	0.131	0.137	3.32	3.47	28.5		
75908-10	10	37*36	0.154	0.162	3.91	3.86	41.8		

Additional information

Abrasion Resistant
Fluid Resistant

EXTRUDED PTFE SAE AS22759

AS22759/9 & AS22759/10

Applications

Designed for general purpose aircraft wiring application.
These constructions can be used in protected area, airframe
and swamp area, or inside a cable.
A522759/10 can be used in nacelles & engines high
temperature area.

1000 V

Construction

CONDUCTOR

AS22759/9: Silver coated conductor
AS22759/10: Nickel coated conductor

INSULATION

14 to 22 mil nominal wall thickness
Extruded PTFE



Temperature Rating

AS22759/9: 200°C
AS22759/10: 260°C



AS22759/9: -65° to 200°C
AS22759/10: -65° to 260°C



AS22759/9: LE
AS22759/10: LH



RoHs

AS22759/9

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75909-28	28	7*36	0.041	0.045	1.04	1.14	1.90		
75909-26	26	19*38	0.046	0.050	1.16	1.27	2.57		
75909-24	24	19*36	0.051	0.055	1.29	1.39	3.33		
75909-22	22	19*34	0.058	0.062	1.47	1.57	4.60		
75909-20	20	19*32	0.066	0.070	1.67	1.77	6.40		
75909-18	18	19*30	0.076	0.080	1.93	2.03	9.10		
75909-16	16	19*29	0.083	0.087	2.10	2.20	11.00		
75909-14	14	19*27	0.097	0.103	2.46	2.61	16.40		
75909-12	12	19*25	0.116	0.124	2.94	3.14	25.30		
75909-10	10	37*26	0.137	0.145	3.47	3.68	38.20		

AS22759/10

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75910-28	28	7*36	0.041	0.045	1.04	1.14	1.90		
75910-26	26	19*38	0.046	0.050	1.16	1.27	2.57		
75910-24	24	19*36	0.051	0.055	1.29	1.39	3.33		
75910-22	22	19*34	0.058	0.062	1.47	1.57	4.60		
75910-20	20	19*32	0.066	0.070	1.67	1.77	6.40		
75910-18	18	19*30	0.076	0.080	1.93	2.03	9.10		
75910-16	16	19*29	0.083	0.087	2.10	2.20	11.00		
75910-14	14	19*27	0.097	0.103	2.46	2.61	16.40		
75910-12	12	19*25	0.116	0.124	2.94	3.14	25.30		
75910-10	10	37*26	0.137	0.145	3.47	3.68	38.20		

Additional information

Fluid Resistant

EXTRUDED PTFE SAE AS22759

AS22759/11 & AS22759/12

Applications

Designed for general purpose aircraft wiring application.
These light weight thin wall constructions can be used only
with additional protection, or in protected area, or inside a
cable with a shield or a jacket.

600 V

Construction

CONDUCTOR

AS22759/11: Silver coated conductor
AS22759/12: Nickel coated conductor

INSULATION

9 to 19 mil nominal wall thickness
Extruded PTFE



Temperature Rating

AS22759/11: 200°C
AS22759/12: 260°C



AS22759/11: -65° to 200°C
AS22759/12: -65° to 260°C



AS22759/11: RC
AS22759/12: RE



AS22759/11

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75911-28	28	7*36	0.031	0.035	0.79	0.89	1.36		
75911-26	26	19*38	0.036	0.040	0.91	1.01	1.90		
75911-24	24	19*36	0.041	0.045	1.04	1.14	2.58		
75911-22	22	19*34	0.047	0.051	1.19	1.29	3.72		
75911-20	20	19*32	0.056	0.060	1.42	1.52	5.43		
75911-18	18	19*30	0.066	0.070	1.67	1.77	8.14		
75911-16	16	19*29	0.073	0.077	1.85	1.95	10.00		
75911-14	14	19*27	0.088	0.092	2.23	2.33	15.10		
75911-12	12	19*25	0.108	0.114	2.74	2.89	24.10		
75911-10	10	37*26	0.135	0.143	3.42	3.63	37.80		

AS22759/12

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75911-28	28	7*36	0.031	0.035	0.79	0.89	1.36		
75911-26	26	19*38	0.036	0.040	0.91	1.01	1.90		
75911-24	24	19*36	0.041	0.045	1.04	1.14	2.58		
75911-22	22	19*34	0.047	0.051	1.19	1.29	3.72		
75911-20	20	19*32	0.056	0.060	1.42	1.52	5.43		
75911-18	18	19*30	0.066	0.070	1.67	1.77	8.14		
75911-16	16	19*29	0.073	0.077	1.85	1.95	10.00		
75911-14	14	19*27	0.088	0.092	2.23	2.33	15.10		
75911-12	12	19*25	0.108	0.114	2.74	2.89	24.10		
75911-10	10	37*26	0.135	0.143	3.42	3.63	39.00		

Additional information

Fluid Resistant

EXTRUDED PTFE SAE AS22759

AS22759/20 & AS22759/21

Applications

Designed for general purpose aircraft wiring application.
These constructions can be used in protected area, airframe
area and swamp area, or inside a cable.

1000 V

Construction

CONDUCTOR

AS22759/20: Silver coated high
strength copper alloy
AS22759/21: Nickel coated high
strength copper alloy

INSULATION

15 mil nominal wall thickness
Extruded PTFE



Temperature Rating

AS22759/20: 200°C
AS22759/21: 260°C



AS22759/20: -65° to 200°C
AS22759/21: -65° to 260°C



AS22759/20: TK
AS22759/21: TL



AS22759/20

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75920-28	28	7*36	0.041	0.045	1.04	1.14	1.91		
75920-26	26	19*38	0.046	0.050	1.16	1.27	2.57		
75920-24	24	19*36	0.051	0.055	1.29	1.39	3.35		
75920-22	22	19*34	0.058	0.062	1.47	1.57	4.59		
75920-20	20	19*32	0.066	0.070	1.67	1.77	6.41		

AS22759/21

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75921-28	28	7*36	0.041	0.045	1.04	1.14	1.93		
75921-26	26	19*38	0.046	0.050	1.16	1.27	2.60		
75921-24	24	19*36	0.051	0.055	1.29	1.39	3.38		
75921-22	22	19*34	0.058	0.062	1.47	1.57	4.61		
75921-20	20	19*32	0.066	0.070	1.67	1.77	6.43		

Additional information**Fluid Resistant**

EXTRUDED PTFE SAE AS22759

AS22759/22 & AS22759/23

Applications

Designed for general purpose aircraft wiring application.
These light weight thin wall constructions can be used only
in protected area, or inside a cable.

600 V

Construction

CONDUCTOR

AS22759/22: Silver coated high
strength copper alloy
AS22759/23: Nickel coated high
strength copper alloy

INSULATION

10 mil nominal wall thickness
Extruded PTFE



Temperature Rating

AS22759/22: 200°C
AS22759/23: 260°C



-65° to 260°C



AS22759/22: TM
AS22759/23: TN



AS22759/22

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75922-28	28	7*36	0.031	0.035	0.78	0.89	1.32		
75922-26	26	19*38	0.036	0.040	0.91	1.01	1.91		
75922-24	24	19*36	0.041	0.045	1.04	1.14	2.61		
75922-22	22	19*34	0.047	0.051	1.19	1.29	3.68		
75922-20	20	19*32	0.056	0.060	1.42	1.52	5.38		

AS22759/23

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75923-28	28	7*36	0.031	0.035	1.04	1.14	1.34		
75923-26	26	19*38	0.036	0.040	1.16	1.27	1.92		
75923-24	24	19*36	0.041	0.045	1.29	1.39	2.63		
75923-22	22	19*34	0.047	0.051	1.47	1.57	3.73		
75923-20	20	19*32	0.056	0.060	1.67	1.77	5.44		

Additional information

Fluid Resistant

CROSSLINKED ETFE SAE AS22759

AS22759/32, AS22759/44 & AS22759/45

Applications

Designed for general purpose aircraft wiring application.
These light weight single layer constructions can be used
only with additional protection, or in protected area, or
inside a cable with a shield or a jacket.

600 V

Construction

CONDUCTOR

AS22759/32: Tin coated copper
AS22759/44: Silver coated copper
AS22759/45: Nickel coated copper

INSULATION

6 mil nominal wall thickness
Extruded XL-ETFE Single layer



Temperature Rating

AS22759/32: 150°C
AS22759/44: 200°C
AS22759/45: 200°C



AS22759/32: -65° to 150°C
AS22759/44 & /45: -65° to 200°C



AS22759/32: SB
AS22759/44: SR
AS22759/45: SS



AS22759/32

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75932-30	30	7*38	0.022	0.026	0.56	0.66	0.66		
75932-28	28	7*36	0.025	0.029	0.64	0.74	0.91		
75932-26	26	19*38	0.030	0.034	0.76	0.86	1.40		
75932-24	24	19*36	0.035	0.039	0.89	0.99	2.00		
75932-22	22	19*34	0.041	0.045	1.04	1.14	2.80		
75932-20	20	19*32	0.048	0.052	1.21	1.32	4.30		
75932-18	18	19*30	0.058	0.062	1.47	1.57	6.50		
75932-16	16	19*29	0.066	0.070	1.67	1.77	8.30		
75932-14	14	19*27	0.082	0.088	2.08	2.23	13.00		
75932-12	12	37*28	0.100	0.106	2.54	2.69	19.70		

AS22759/44

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75944-28	28	7*36	0.025	0.029	0.64	0.74	0.91		
75944-26	26	19*38	0.030	0.034	0.76	0.86	1.40		
75944-24	24	19*36	0.035	0.039	0.89	0.99	2.00		
75944-22	22	19*34	0.041	0.045	1.04	1.14	2.80		
75944-20	20	19*32	0.048	0.052	1.21	1.32	4.30		
75944-18	18	19*30	0.058	0.062	1.47	1.57	6.50		
75944-16	16	19*29	0.066	0.070	1.67	1.77	8.30		
75944-14	14	19*27	0.082	0.088	2.08	2.23	13.00		
75944-12	12	37*28	0.100	0.106	2.54	2.69	19.70		

AS22759/45

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75945-28	28	7*36	0.025	0.029	0.64	0.74	0.91		
75945-26	26	19*38	0.030	0.034	0.76	0.86	1.40		
75945-24	24	19*36	0.035	0.039	0.89	0.99	2.00		
75945-22	22	19*34	0.041	0.045	1.04	1.14	2.80		
75945-20	20	19*32	0.048	0.052	1.21	1.32	4.30		
75945-18	18	19*30	0.058	0.062	1.47	1.57	6.50		
75945-16	16	19*29	0.066	0.070	1.67	1.77	8.30		
75945-14	14	19*27	0.082	0.088	2.08	2.23	13.00		
75945-12	12	37*28	0.100	0.106	2.54	2.69	19.70		

Additional information**Light weight****Fluid Resistant****UV markable for white, for other solid colors upon special request**

CROSSLINKED ETFE SAE AS22759

AS22759/33 & AS22759/46

Applications

Designed for general purpose aircraft wiring application.
These light weight single layer constructions can be used
only with additional protection, or in protected area, or
inside a cable with a shield or a jacket.

600 V

Construction

CONDUCTOR

AS22759/33: Silver coated high
strength copper alloy

AS22759/46: Nickel coated high
strength copper alloy

INSULATION

6 mil nominal wall thickness
Extruded XL-ETFE Single layer



Temperature Rating

AS22759/33: 200°C

AS22759/46: 200°C



-65° to 200°C



AS22759/33: SC
AS22759/46: ST



Compliant upon request

■ AS22759/33

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75933-30	30	7*38	0.022	0.026	0.56	0.66	0.66		
75933-28	28	7*36	0.025	0.029	0.64	0.74	0.91		
75933-26	26	19*38	0.030	0.034	0.76	0.86	1.40		
75933-24	24	19*36	0.035	0.039	0.89	0.99	2.00		
75933-22	22	19*34	0.041	0.045	1.04	1.14	2.90		
75933-20	20	19*32	0.048	0.052	1.21	1.32	4.40		

■ AS22759/46

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75946-28	28	7*36	0.025	0.029	0.64	0.74	0.91		
75946-26	26	19*38	0.030	0.034	0.76	0.86	1.40		
75946-24	24	19*36	0.035	0.039	0.89	0.99	2.00		
75946-22	22	19*34	0.041	0.045	1.04	1.14	2.90		
75946-20	20	19*32	0.048	0.052	1.21	1.32	4.40		

■ Additional information

Light weight

Fluid Resistant

UV markable for white, for other solid colors upon special request

CROSSLINKED ETFE SAE AS22759

AS22759/35 & AS22759/42

Applications

Designed for general purpose aircraft wiring application.
These contructions can be used in protected area, airframe
and swamp area, or inside a cable.

600 V

Construction

CONDUCTOR

AS22759/35: Silver coated high strength copper alloy
AS22759/42: Nickel coated high strength copper alloy



INSULATION

10 mil nominal wall thickness
1st Layer: Extruded XL-ETFE
2nd Layer: Extruded XL-ETFE

Temperature Rating

AS22759/35: 200°C
AS22759/42: 200°C



-65° to 200°C



WC27500
AS22759/35: SE
AS22759/42: SN



Compliant upon request

■ AS22759/35

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75935-26	26	19*38	0.038	0.042	0.97	1.06	1.7		
75935-24	24	19*36	0.043	0.047	1.09	1.19	2.3		
75935-22	22	19*34	0.048	0.052	1.21	1.32	3.3		
75935-20	20	19*32	0.056	0.060	1.42	1.52	4.8		

■ AS22759/42

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75942-26	26	19*38	0.038	0.042	0.97	1.06	1.7		
75942-24	24	19*36	0.043	0.047	1.09	1.19	2.3		
75942-22	22	19*34	0.048	0.052	1.21	1.32	3.3		
75942-20	20	19*32	0.056	0.060	1.42	1.52	4.8		

■ Additional information

Fluid Resistant

UV markable for white, for other solid colors upon special request

CROSSLINKED ETFE SAE AS22759

AS22759/34, AS22759/41, & AS22759/43

Applications

Designed for general purpose aircraft wiring application.
These contructions can be used in protected area, airframe
and swamp area, or inside a cable.

600 V

Construction

CONDUCTOR

AS22759/34: Tin coated copper
AS22759/41: Nickel coated copper
AS22759/43: Silver coated copper

BRAID

Treated aromatic polyamide for size
2 and larger

INSULATION

10 mil nominal wall thickness
1st Layer: Extruded XL-ETFE
2nd Layer: Extruded XL-ETFE



Temperature Rating

AS22759/34: 150°C
AS22759/41: 200°C
AS22759/43: 200°C



AS22759/34: -65° to 150°C
AS22759/41, AS22759/43: -65° to 200°C



AS22759/34: SD
AS22759/41: SM
AS22759/43: SP



AS22759/34

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75934-24	24	19*36	0.043	0.047	1.09	1.19	2.3		
75934-22	22	19*34	0.048	0.052	1.27	1.32	3.2		
75934-20	20	19*32	0.056	0.060	1.47	1.52	4.7		
75934-18	18	19*30	0.067	0.073	1.75	1.85	7.2		
75934-16	16	19*29	0.074	0.080	1.95	2.03	9.0		
75934-14	14	19*27	0.091	0.097	2.31	2.46	13.8		
75934-12	12	37*28	0.108	0.114	2.74	2.89	20.5		
75934-10	10	37*26	0.130	0.138	3.30	3.50	32.4		
75934-8	8	133*29	0.187	0.203	4.74	5.15	60.3		
75934-6	6	133*27	0.231	0.251	5.86	6.37	94.5		
75934-4	4	133*25	0.300	0.320	7.62	8.12	150.0		
75934-2	2	665*30	0.390	0.428	9.90	10.87	239.0		
75934-1	1	817*30	0.429	0.461	10.89	11.7	290.0		
75934-01	0	1045*30	0.469	0.501	11.91	12.72	377.0		
75934-02	00	1330*30	0.529	0.561	13.43	14.24	487.0		

AS22759/41

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75941-26	26	19*38	0.038	0.042	0.97	1.06	1.7		
75941-24	24	19*36	0.043	0.047	1.09	1.19	2.3		
75941-22	22	19*34	0.048	0.052	1.21	1.32	3.2		
75941-20	20	19*32	0.056	0.060	1.42	1.52	4.7		
75941-18	18	19*30	0.067	0.073	1.70	1.85	7.2		
75941-16	16	19*29	0.074	0.080	1.87	2.03	9.0		
75941-14	14	19*27	0.091	0.097	2.31	2.46	13.8		
75941-12	12	37*28	0.108	0.114	2.74	2.89	20.5		
75941-10	10	37*26	0.130	0.138	3.30	3.50	32.4		
75941-8	8	133*29	0.187	0.203	4.74	5.15	60.3		
75941-6	6	133*27	0.231	0.251	5.86	6.37	94.5		
75941-4	4	133*25	0.300	0.320	7.62	8.12	150.0		
75941-2	2	665*30	0.390	0.428	9.90	10.87	239.0		
75941-1	1	817*30	0.429	0.461	10.89	11.7	290.0		
75941-01	0	1045*30	0.469	0.501	11.91	12.72	377.0		
75941-02	00	1330*30	0.529	0.561	13.43	14.24	518.0		

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75943-26	26	19*38	0.038	0.042	0.97	1.06	1.7		
75943-24	24	19*36	0.043	0.047	1.09	1.19	2.3		
75943-22	22	19*34	0.048	0.052	1.21	1.32	3.2		
75943-20	20	19*32	0.056	0.060	1.42	1.52	4.7		
75943-18	18	19*30	0.067	0.073	1.70	1.85	7.2		
75943-16	16	19*29	0.074	0.080	1.87	2.03	9.0		
75943-14	14	19*27	0.091	0.097	2.31	2.46	13.8		
75943-12	12	37*28	0.108	0.114	2.74	2.89	20.5		
75943-10	10	37*26	0.130	0.138	3.30	3.50	32.4		
75943-8	8	133*29	0.187	0.203	4.74	5.15	61.9		
75943-6	6	133*27	0.231	0.251	5.86	6.37	94.5		
75943-4	4	133*25	0.300	0.320	7.62	8.12	158.0		
75943-2	2	665*30	0.390	0.428	9.90	10.87	239.0		
75943-1	1	817*30	0.429	0.461	10.89	11.7	305.0		
75943-01	0	1045*30	0.469	0.501	11.91	12.72	385.0		
75943-02	00	1330*30	0.529	0.561	13.43	14.24	487.0		

Additional information

Fluid Resistant

UV markable for white, for other solid colors upon special request

CROSSLINKED POLYALKENE SAE AS81044

AS81044/8, AS81044/9 & AS81044/10

Applications

Designed for general purpose aircraft wiring application.
These constructions can be used in protected and airframe area, or inside a cable.

600 V

Construction

CONDUCTOR

AS81044/8: Silver Coated Copper

AS81044/9: Tin Coated Copper

AS81044/10: Silver coated High Strength Copper Alloy

INSULATION

15 mil nominal wall thickness

1st Layer: Extruded XL Polyalkene

2nd Layer: Extruded XL Polyvinylidene Fluoride (XL-PVDF)



Temperature Rating

AS81044/8: 150°C

AS81044/9: 150°C

AS81044/10: 150°C



AS81044/8: -65° to 150°C
AS81044/9: -65° to 150°C
AS81044/10: -65° to 150°C



AS81044/8: MG
AS81044/9: MH
AS81044/10: MJ



AS81044/8 , AS81044/9 compliant
AS81044/10 compliant upon request

AS81044/8

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
84408-24	24	19*36	0.052	0.056	1.27	1.47	2.7		
84408-22	22	19*34	0.059	0.065	1.42	1.72	3.9		
84408-20	20	19*32	0.067	0.073	1.63	1.93	5.5		
84408-18	18	19*30	0.077	0.083	1.88	2.18	8.0		
84408-16	16	19*29	0.085	0.093	2.06	2.46	10.1		
84408-14	14	19*27	0.104	0.112	2.54	2.95	15.5		
84408-12	12	37*28	0.122	0.130	2.99	3.40	23.0		
84408-10	10	37*26	0.150	0.160	3.68	4.19	35.7		
84408-8	8	133*29	0.208	0.220	5.13	5.74	65.9		

AS81044/9

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
84409-24	24	19*36	0.052	0.056	1.27	1.47	2.7		
84409-22	22	19*34	0.059	0.065	1.42	1.72	3.9		
84409-20	20	19*32	0.067	0.073	1.63	1.93	5.5		
84409-18	18	19*30	0.077	0.083	1.88	2.18	8.0		
84409-16	16	19*29	0.085	0.093	2.06	2.46	10.1		
84409-14	14	19*27	0.104	0.112	2.54	2.95	15.5		
84409-12	12	37*28	0.122	0.130	2.99	3.40	23.0		
84409-10	10	37*26	0.150	0.160	3.68	4.19	35.7		
84409-8	8	133*29	0.208	0.220	5.13	5.74	65.9		

AS81044/10

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
84410-26	26	19*38	0,046	0,050	1,17	1,27	1,9		
84410-24	24	19*36	0,052	0,056	1,32	1,42	2,7		
84410-22	22	19*34	0,059	0,065	1,50	1,65	3,9		
84410-20	20	19*32	0,067	0,073	1,70	1,85	5,5		

CROSSLINKED POLYALKENE SAE AS81044

AS81044/11, AS81044/12 & AS81044/13

Applications

Designed for general purpose aircraft wiring application.
These light weight thin wall dual layer constructions can be used only with additional protection, or in protected area, or inside a cable with a shield or a jacket.

600 V

Construction

CONDUCTOR

AS81044/11: Silver Coated Copper
AS81044/12: Tin Coated Copper
AS81044/13: Silver coated High Strength Copper Alloy



INSULATION

7.5 mil nominal wall thickness
1st Layer: Extruded XL Polyalkene
2nd Layer: Extruded XL Polyvinylidene Fluoride (XL-PVDF)

Temperature Rating

AS81044/11: 150°C
AS81044/12: 150°C
AS81044/13: 150°C



AS81044/11: -65° to 150°C
AS81044/12: -65° to 150°C
AS81044/13: -65° to 150°C



AS81044/11: MK
AS81044/12: ML
AS81044/13: MM



AS81044/11, AS81044/12 compliant
AS81044/13 compliant upon request

AS81044/11

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
84411-30	30	7*38	0.025	0.029	0.06	0.74	0.71		
84411-28	28	7*36	0.028	0.032	0.07	0.81	0.96		
84411-26	26	19*38	0.032	0.036	0.08	0.91	1.40		
84411-24	24	19*36	0.038	0.042	0.10	1.07	2.10		
84411-22	22	19*34	0.045	0.049	1.14	1.24	3.10		
84411-20	20	19*32	0.053	0.057	1.35	1.45	4.60		
84411-18	18	19*30	0.063	0.067	1.60	1.70	7.00		
84411-16	16	19*29	0.069	0.075	1.75	1.91	8.90		
84411-14	14	19*27	0.085	0.093	2.16	2.36	13.90		
84411-12	12	37*28	0.104	0.112	2.64	2.84	21.70		

AS81044/12

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
84412-30	30	7*38	0.025	0.029	0.06	0.74	0.71		
84412-28	28	7*36	0.028	0.032	0.07	0.81	0.96		
84412-26	26	19*38	0.032	0.036	0.08	0.91	1.40		
84412-24	24	19*36	0.038	0.042	0.10	1.07	2.10		
84412-22	22	19*34	0.045	0.049	1.14	1.24	3.10		
84412-20	20	19*32	0.053	0.057	1.35	1.45	4.60		
84412-18	18	19*30	0.063	0.067	1.60	1.70	7.00		
84412-16	16	19*29	0.069	0.075	1.75	1.91	8.90		
84412-14	14	19*27	0.085	0.093	2.16	2.36	13.90		
84412-12	12	37*28	0.104	0.112	2.64	2.84	21.70		

AS81044/13

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
84413-30	30	7*38	0.025	0.029	0.06	0.74	0.71		
84413-28	28	7*36	0.028	0.032	0.07	0.81	0.96		
84413-26	26	19*38	0.032	0.036	0.08	0.91	1.40		
84413-24	24	19*36	0.038	0.042	0.10	1.07	2.10		
84413-22	22	19*34	0.045	0.049	1.14	1.24	3.10		
84413-20	20	19*32	0.053	0.057	1.35	1.45	4.60		

Additional information

Light weight

COMPOSITE WIRE SAE AS22759

AS22759/80, AS22759/81, and AS22759/82

Applications

Designed for general purpose aircraft wiring application.
These light weight thin wall constructions can be used only with additional protection, or in protected area, or inside a cable with a shield or a jacket.

600 V

Construction

CONDUCTOR

AS22759/80: Tin coated copper
AS22759/81: Silver coated high strength copper alloy
26 AWG Ultra-High strength copper alloy
AS22759/82: Nickel coated high strength copper alloy
26 AWG Ultra-High strength copper alloy



INSULATION

PTFE/POLYIMIDE TAPE WRAP
(5.8 - 6.7 NOM.)

Temperature Rating

AS22759/80: 150°C
AS22759/81: 200°C
AS22759/82: 260°C



AS22759/80: -65° to 150°C
AS22759/81: -65° to 200°C
AS22759/82: -65° to 260°C



AS22759/80: WB
AS22759/81: WC
AS22759/82: WE



Arc resistant



Flame resistant



AS22759/80 : Red, Orange & Yellow solid colors: compliant upon request
White and other colors: compliant
AS22759/81/AS22759/82:
compliant upon request

AS22759/80

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75980-26	26	19*38	0.030	0.034	0.76	0.86	1.45		
75980-24	24	19*36	0.034	0.038	0.86	0.97	2.00		
75980-22	22	19*34	0.040	0.043	1.01	1.09	2.95		
75980-20	20	19*32	0.048	0.051	1.21	1.29	4.45		
75980-18	18	19*30	0.056	0.060	1.42	1.52	6.65		
75980-16	16	19*29	0.063	0.067	1.60	1.70	8.35		
75980-14	14	19*27	0.076	0.080	1.93	2.03	12.80		
75980-12	12	37*28	0.096	0.100	2.43	2.54	20.30		
75980-10	10	37*26	0.119	0.123	3.02	3.12	31.40		

AS22759/81

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75981-26	26(*)	19*38	0.030	0.034	0.76	0.86	1.46		
75981-24	24	19*36	0.034	0.038	0.86	0.97	1.99		
75981-22	22	19*34	0.040	0.043	1.01	1.09	2.95		
75981-20	20	19*32	0.048	0.051	1.21	1.29	4.44		

(*) Conductor shall be ultra-high strength copper alloy

AS22759/82

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75982-26	26(*)	19*38	0.030	0.034	0.76	0.86	1.45		
75982-24	24	19*36	0.034	0.038	0.86	0.97	2.00		
75982-22	22	19*34	0.040	0.043	1.01	1.09	2.95		
75982-20	20	19*32	0.048	0.051	1.21	1.29	4.45		

(*) Conductor shall be ultra-high strength copper alloy

Additional information

- Light weight**
- Fluid Resistant**
- Abrasion Resistant**
- UV Laser markable**

COMPOSITE WIRE SAE AS22759

AS22759/86, AS22759/87, and AS22759/88

Applications

Designed for general purpose aircraft wiring application for 26 AWG to 10 AWG.

Designed for power transmission for 8 AWG and larger.

These constructions can be used in protected area, airframe and swamp area, or inside a cable.

A522759/87 can be used in nacelles & engines high temperature area.

600 V

Construction

CONDUCTOR

AS22759/86: Silver coated copper

AS22759/87: Nickel coated copper

AS22759/88: Tin coated copper



INSULATION

PTFE/POLYIMIDE TAPE WRAP
(7.4 - 16.2 MIL NOM.)

Temperature Rating

AS22759/86: 200°C

AS22759/87: 260°C

AS22759/88: 150°C



AS22759/86: -65° to 200°C
AS22759/87: -65° to 260°C
AS22759/88: -65° to 150°C



AS22759/86: WJ
AS22759/87: WK
AS22759/88: WL



Arc resistant



Flame resistant



For Red, Orange & Yellow solid colors: compliant upon except
White and other colors: compliant

AS22759/86

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75986-26	26	19*38	0.033	0.037	0.84	0.94	1.55		
75986-24	24	19*36	0.038	0.042	0.97	1.06	2.20		
75986-22	22	19*34	0.043	0.047	1.09	1.19	3.10		
75986-20	20	19*32	0.051	0.055	1.29	1.39	4.70		
75986-18	18	19*30	0.061	0.065	1.54	1.65	6.90		
75986-16	16	19*29	0.068	0.073	1.72	1.85	8.80		
75986-14	14	19*27	0.081	0.086	2.05	2.18	13.40		
75986-12	12	37*28	0.100	0.105	2.54	2.66	20.40		
75986-10	10	37*26	0.122	0.127	3.09	3.22	31.60		
75986-8	8	133*29	0.180	0.188	4.57	4.77	58.5		
75986-6	6	133*27	0.219	0.229	5.56	5.81	88.9		
75986-4	4	133*25	0.276	0.288	7.01	7.31	144.0		
75986-2	2	665*30	0.344	0.364	8.73	9.24	226.0		
75986-1	1	817*30	0.388	0.408	9.85	10.36	292.0		
75986-01	0	1045*30	0.420	0.450	10.66	11.43	352.0		
75986-02	00	1330*30	0.475	0.505	12.06	12.82	448.0		

AS22759/87

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75987-26	26	19*38	0.033	0.037	0.84	0.94	1.55		
75987-24	24	19*36	0.038	0.042	0.97	1.06	2.20		
75987-22	22	19*34	0.043	0.047	1.09	1.19	3.10		
75987-20	20	19*32	0.051	0.055	1.29	1.39	4.65		
75987-18	18	19*30	0.061	0.065	1.54	1.65	6.85		
75987-16	16	19*29	0.068	0.073	1.72	1.85	8.70		
75987-14	14	19*27	0.081	0.086	2.05	2.18	13.30		
75987-12	12	37*28	0.100	0.105	2.54	2.66	20.20		
75987-10	10	37*26	0.122	0.127	3.09	3.22	31.60		
75987-8	8	133*29	0.180	0.188	4.57	4.77	58.5		
75987-6	6	133*27	0.219	0.229	5.56	5.81	88.9		
75987-4	4	133*25	0.276	0.288	7.01	7.31	144.0		
75987-2	2	665*30	0.344	0.364	8.73	9.24	226.0		
75987-1	1	817*30	0.388	0.408	9.85	10.36	292.0		
75987-01	0	1045*30	0.420	0.450	10.66	11.43	352.0		
75987-02	00	1330*30	0.475	0.505	12.06	12.82	448.0		

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75988-26	26	19*38	0.033	0.037	0.84	0.94	1.55		
75988-24	24	19*36	0.038	0.042	0.97	1.06	2.20		
75988-22	22	19*34	0.043	0.047	1.09	1.19	3.10		
75988-20	20	19*32	0.051	0.055	1.29	1.39	4.65		
75988-18	18	19*30	0.061	0.065	1.54	1.65	6.85		
75988-16	16	19*29	0.068	0.073	1.72	1.85	8.70		
75988-14	14	19*27	0.081	0.086	2.05	2.18	13.30		
75988-12	12	37*28	0.100	0.105	2.54	2.66	20.20		
75988-10	10	37*26	0.122	0.127	3.09	3.22	32.20		
75988-8	8	133*29	0.180	0.188	4.57	4.77	58.5		
75988-6	6	133*27	0.219	0.229	5.56	5.81	88.9		
75988-4	4	133*25	0.276	0.288	7.01	7.31	144.0		
75988-2	2	665*30	0.344	0.364	8.73	9.24	226.0		
75988-1	1	817*30	0.388	0.408	9.85	10.36	292.0		
75988-01	0	1045*30	0.420	0.450	10.66	11.43	352.0		
75988-02	00	1330*30	0.475	0.505	12.06	12.82	448.0		

Additional information

Fluid Resistant
Abrasion Resistant
UV Laser markable

COMPOSITE WIRE SAE AS22759

AS22759/89 and AS22759/90

Applications

Designed for general purpose aircraft wiring application.
These constructions can be used in protected area, airframe area and swamp area, or inside a cable.
A522759/90 can be used in nacelles & engines high temperature area.

600 V

Construction

CONDUCTOR

AS22759/89: Silver coated high strength copper alloy
26 AWG Ultra-High strength copper alloy
AS22759/90: Nickel coated high strength copper alloy
26 AWG Ultra-High strength copper alloy



INSULATION

PTFE/POLYIMIDE TAPE WRAP
(7.4 NOM.)

Temperature Rating

AS22759/89: 200°C
AS22759/90: 260°C



AS22759/89: -65° to 200°C
AS22759/90: -65° to 260°C



AS22759/89: WM
AS22759/90: WN



Arc resistant



Flame resistant



Compliant upon request

AS22759/89: -65° to 200°C AS22759/90: -65° to 260°C	WC27500	Arc resistant	Flame resistant	RoHS
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AS22759/89

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75989-26	26(*)	19*38	0.033	0.037	0.84	0.94	1.60		
75989-24	24	19*36	0.038	0.042	0.97	1.06	2.20		
75989-22	22	19*34	0.043	0.047	1.09	1.19	3.10		
75989-20	20	19*32	0.051	0.055	1.29	1.39	4.65		

(*) Conductor shall be ultra-high strength copper alloy

AS22759/90

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75990-26	26(*)	19*38	0.033	0.037	0.84	0.94	1.60		
75990-24	24	19*36	0.038	0.042	0.97	1.06	2.20		
75990-22	22	19*34	0.043	0.047	1.09	1.19	3.10		
75990-20	20	19*32	0.051	0.055	1.29	1.39	4.65		

(*) Conductor shall be ultra-high strength copper alloy

Additional information

- Fluid Resistant**
- Abrasion Resistant**
- UV Laser markable**

COMPOSITE WIRE SAE AS22759

AS22759/91 and AS22759/92

Applications

Designed for general purpose aircraft wiring application.
These light weight thin wall constructions can be used only with additional protection, or in protected area, or inside a cable with a shield or a jacket.

600 V

Construction

CONDUCTOR

AS22759/91: Silver coated copper
AS22759/92: Nickel coated copper

INSULATION

PTFE/POLYIMIDE TAPE WRAP
(5.8 - 6.7 NOM.)



Temperature Rating

AS22759/91: 200°C
AS22759/92: 260°C



AS22759/91: -65° to 200°C
AS22759/92: -65° to 260°C



AS22759/91: WP
AS22759/92: WR



Arc resistant



Flame resistant



For Red, Orange & Yellow solid colors: compliant upon except
White and other colors: compliant

AS22759/91

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75991-26	26	19*38	0.030	0.034	0.76	0.86	1.45		
75991-24	24	19*36	0.034	0.038	0.86	0.97	2.00		
75991-22	22	19*34	0.040	0.043	1.01	1.09	2.96		
75991-20	20	19*32	0.048	0.051	1.21	1.29	4.50		
75991-18	18	19*30	0.056	0.060	1.42	1.52	6.70		
75991-16	16	19*29	0.063	0.067	1.6	1.70	8.40		
75991-14	14	19*27	0.076	0.080	1.93	2.03	12.90		
75991-12	12	37*28	0.096	0.100	2.43	2.54	19.90		
75991-10	10	37*26	0.119	0.123	3.02	3.12	30.80		

AS22759/92

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75992-26	26	19*38	0.030	0.034	0.76	0.86	1.45		
75992-24	24	19*36	0.034	0.038	0.86	0.97	2.00		
75992-22	22	19*34	0.040	0.043	1.01	1.09	2.95		
75992-20	20	19*32	0.048	0.051	1.21	1.29	4.45		
75992-18	18	19*30	0.056	0.060	1.42	1.52	6.65		
75992-16	16	19*29	0.063	0.067	1.6	1.70	8.35		
75992-14	14	19*27	0.076	0.080	1.93	2.03	12.80		
75992-12	12	37*28	0.096	0.100	2.43	2.54	19.70		
75992-10	10	37*26	0.119	0.123	3.02	3.12	30.80		

Additional information

Light weight
Fluid Resistant
Abrasion Resistant
UV Laser markable

CROSSLINKED ETFE CC: CROSSLINK COMMERCIAL

CC1T, CC1S, CC1N, CC1V, & CC1K

Applications

Designed for general purpose aircraft wiring application.
These light weight single layer constructions can only be used with additional protection, or in protected area, or inside a cable with a shield or a jacket.

600 V

Construction

CONDUCTOR

CC1T: Tin coated copper
CC1S: Silver coated copper
CC1N: Nickel coated copper
CC1V: Silver coated high strength copper alloy
CC1K: Nickel coated high strength copper alloy

INSULATION

6 mil nominal wall thickness
Extruded XL-ETFE Single layer



Temperature Rating

CC1T: 150°C
CC1S: 200°C
CC1N: 200°C
CC1V: 200°C
CC1K: 200°C



CC1T: -65° to 150°C
CC1S, CC1N, CC1V, CC1K: -65° to 200°C



CC1T, CC1S, CC1N compliant
CC1V, CC1K compliant upon request

CC1T

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC1T30	30	7*38	0.0113	0.0193	0.29	0.49	0.66		
CC1T28	28	7*36	0.0258	0.0282	0.66	0.72	0.91		
CC1T26	26	19*38	0.0303	0.0327	0.77	0.83	1.40		
CC1T24	24	19*36	0.0341	0.0369	0.87	0.94	1.93		
CC1T22	22	19*34	0.0401	0.0429	1.02	1.09	2.83		
CC1T20	20	19*32	0.0481	0.0509	1.22	1.29	4.35		
CC1T18	18	19*30	0.0573	0.0607	1.46	1.54	6.63		
CC1T16	16	19*29	0.0646	0.0684	1.64	1.74	8.46		
CC1T14	14	19*27	0.0789	0.0831	2.00	2.11	12.90		
CC1T12	12	37*28	0.0974	0.1026	2.47	2.61	19.71		
CC1T10	10	37*26	0.1220	0.1300	3.10	3.30	31.70		

CC1S

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC1S26	26	19*38	0.0303	0.0327	0.77	0.83	1.40		
CC1S24	24	19*36	0.0341	0.0369	0.87	0.94	1.93		
CC1S22	22	19*34	0.0401	0.0429	1.02	1.09	2.83		
CC1S20	20	19*32	0.0481	0.0509	1.22	1.29	4.35		
CC1S18	18	19*30	0.0573	0.0607	1.46	1.54	6.63		
CC1S16	16	19*29	0.0646	0.0684	1.64	1.74	8.46		
CC1S14	14	19*27	0.0789	0.0831	2.00	2.11	12.90		
CC1S12	12	37*28	0.0974	0.1026	2.47	2.61	19.71		
CC1S10	10	37*26	0.1220	0.1300	3.10	3.30	31.70		

CC1N

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC1N26	26	19*38	0.0303	0.0327	0.77	0.83	1.40		
CC1N24	24	19*36	0.0341	0.0369	0.87	0.94	1.93		
CC1N22	22	19*34	0.0401	0.0429	1.02	1.09	2.83		
CC1N20	20	19*32	0.0481	0.0509	1.22	1.29	4.35		
CC1N18	18	19*30	0.0573	0.0607	1.46	1.54	6.63		
CC1N16	16	19*29	0.0646	0.0684	1.64	1.74	8.46		
CC1N14	14	19*27	0.0789	0.0831	2.00	2.11	12.90		
CC1N12	12	37*28	0.0974	0.1026	2.47	2.61	19.71		
CC1N10	10	37*26	0.1220	0.1300	3.10	3.30	31.70		

■ CC1V

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC1V30	30	7*38	0.0113	0.0193	0.29	0.49	0.66		
CC1V28	28	7*36	0.0258	0.0282	0.66	0.72	0.91		
CC1V26	26	19*38	0.0303	0.0327	0.77	0.83	1.40		
CC1V24	24	19*36	0.0341	0.0369	0.87	0.94	1.93		
CC1V22	22	19*34	0.0401	0.0429	1.02	1.09	2.83		
CC1V20	20	19*32	0.0481	0.0509	1.22	1.29	4.35		
CC1V18	18	19*30	0.0573	0.0607	1.46	1.54	6.63		
CC1V16	16	19*29	0.0646	0.0684	1.64	1.74	8.46		

■ CC1K

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC1K26	26	19*38	0.0303	0.0327	0.77	0.83	1.40		
CC1K24	24	19*36	0.0341	0.0369	0.87	0.94	1.93		
CC1K22	22	19*34	0.0401	0.0429	1.02	1.09	2.83		
CC1K20	20	19*32	0.0481	0.0509	1.22	1.29	4.35		
CC1K18	18	19*30	0.0573	0.0607	1.46	1.54	6.63		
CC1K16	16	19*29	0.0646	0.0684	1.64	1.74	8.46		

■ Additional information

Equivalent to 55PC02

Fluid Resistant

UV markable

CROSSLINKED ETFE CC: CROSSLINK COMMERCIAL

CC2T, CC2S, CC2N, CC2V, & CC2K

Applications

Designed for general purpose aircraft wiring application.

These thinwall dual layer constructions can be used in protected and airframe area, or inside a cable.

600 V

Construction

CONDUCTOR

CC2T: Tin coated copper

CC2S: Silver coated copper

CC2N: Nickel coated copper

CC2V: Silver coated high strength copper alloy

CC2K: Nickel coated high strength copper alloy



INSULATION

8 mil nominal wall thickness

1st Layer: Extruded XL-ETFE

2nd Layer: Extruded XL-ETFE

Temperature Rating

CC2T: 150°C

CC2S: 200°C

CC2N: 200°C

CC2V: 200°C

CC2K: 200°C



CC2T: -65° to 150°C

CC2S, CC2N, CC2V, CC2K: -65° to 200°C



CC2T, CC2S, CC2N compliant

CC2V, CC2K compliant upon request

CC2T

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC2T26	26	19*38	0.0338	0.0372	0.86	0.94	1.55		
CC2T24	24	19*36	0.0378	0.0412	0.96	1.05	2.13		
CC2T22	22	19*34	0.0438	0.0472	1.11	1.20	3.06		
CC2T20	20	19*32	0.0523	0.0557	1.33	1.41	4.65		
CC2T18	18	19*30	0.0611	0.0649	1.55	1.65	6.98		
CC2T16	16	19*29	0.0690	0.0730	1.75	1.85	8.84		
CC2T14	14	19*27	0.0838	0.0882	2.13	2.24	13.41		
CC2T12	12	37*28	0.1020	0.1074	2.59	2.73	20.31		
CC2T10	10	37*26	0.1252	0.1328	3.18	3.37	32.14		
CC2T8	8	133*29	0.1884	0.2026	4.79	5.15	62.32		
CC2T6	6	133*27	0.2333	0.2507	5.93	6.37	97.52		
CC2T4	4	133*25	0.3003	0.3217	7.63	8.17	157.60		
CC2T2	2	665*30	0.3830	0.3965	9.73	10.07	240.30		
CC2T01	01	1045*30	0.4660	0.4830	11.84	12.27	365.80		
CC2T02	02	1330*30	0.5250	0.5453	13.34	13.85	481.00		

CC2S

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC2S26	26	19*38	0.0338	0.0372	0.86	0.94	1.55		
CC2S24	24	19*36	0.0378	0.0412	0.96	1.05	2.13		
CC2S22	22	19*34	0.0438	0.0472	1.11	1.20	3.06		
CC2S20	20	19*32	0.0523	0.0557	1.33	1.41	4.65		
CC2S18	18	19*30	0.0611	0.0649	1.55	1.65	6.98		
CC2S16	16	19*29	0.0690	0.0730	1.75	1.85	8.84		
CC2S14	14	19*27	0.0838	0.0882	2.13	2.24	13.41		
CC2S12	12	37*28	0.1020	0.1074	2.59	2.73	20.31		
CC2S10	10	37*26	0.1252	0.1328	3.18	3.37	32.14		
CC2S8	8	133*29	0.1884	0.2026	4.79	5.15	62.32		
CC2S6	6	133*27	0.2333	0.2507	5.93	6.37	97.52		
CC2S4	4	133*25	0.3003	0.3217	7.63	8.17	157.60		

CC2N

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC2N24	24	19*36	0.0378	0.0412	0.96	1.05	2.13		
CC2N22	22	19*34	0.0438	0.0472	1.11	1.20	3.06		
CC2N20	20	19*32	0.0523	0.0557	1.33	1.41	4.65		
CC2N18	18	19*30	0.0611	0.0649	1.55	1.65	6.98		
CC2N16	16	19*29	0.0690	0.0730	1.75	1.85	8.84		
CC2N14	14	19*27	0.0838	0.0882	2.13	2.24	13.41		
CC2N12	12	37*28	0.1020	0.1074	2.59	2.73	20.31		
CC2N10	10	37*26	0.1252	0.1328	3.18	3.37	32.14		
CC2N8	8	133*29	0.1884	0.2026	4.79	5.15	62.32		
CC2N6	6	133*27	0.2333	0.2507	5.93	6.37	97.52		
CC2N4	4	133*25	0.3003	0.3217	7.63	8.17	157.60		
CC2N2	2	665*30	0.3830	0.3965	9.73	10.07	240.30		
CC2N0	01	1045*30	0.4660	0.4830	11.84	12.27	365.80		
CC2N2	02	1330*30	0.5250	0.5453	13.34	13.85	481.00		

CC2V

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC2V26	26	19*38	0.0338	0.0372	0.86	0.94	1.55		
CC2V24	24	19*36	0.0378	0.0412	0.96	1.05	2.13		
CC2V22	22	19*34	0.0438	0.0472	1.11	1.20	3.06		
CC2V20	20	19*32	0.0523	0.0557	1.33	1.41	4.65		
CC2V18	18	19*30	0.0611	0.0649	1.55	1.65	6.98		
CC2V16	16	19*29	0.0690	0.0730	1.75	1.85	8.84		

CC2K

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC2K26	26	19*38	0.0338	0.0372	0.86	0.94	1.55		
CC2K24	24	19*36	0.0378	0.0412	0.96	1.05	2.13		
CC2K22	22	19*34	0.0438	0.0472	1.11	1.20	3.06		
CC2K20	20	19*32	0.0523	0.0557	1.33	1.41	4.65		
CC2K18	18	19*30	0.0611	0.0649	1.55	1.65	6.98		
CC2K16	16	19*29	0.0690	0.0730	1.75	1.85	8.84		

Additional information

Equivalent to 55PC02

Fluid Resistant

UV markable



CROSSLINKED ETFE CC: CROSSLINK COMMERCIAL

CC3T, CC3S, CC3N, CC3V, & CC3K

Applications

Designed for general purpose aircraft wiring application.
These constructions can be used in protected area, airframe
area and swamp area, or inside a cable.

600 V

Construction

CONDUCTOR

CC3T: Tin coated copper
CC3S: Silver coated copper
CC3N: Nickel coated copper
CC3V: Silver coated high strength copper alloy
CC3K: Nickel coated high strength copper alloy



INSULATION

10 mil nominal wall thickness
1st Layer: XL-ETFE
2nd Layer: XL-ETFE

Temperature Rating

CC3T: 150°C
CC3S: 200°C
CC3N: 200°C
CC3V: 200°C
CC3K: 200°C



CC3T: -65° to 150°C
CC3S, CC3N, CC3V, CC3K: -65° to 200°C



CC3T, CC3S, CC3N compliant
CC3V, CC3K compliant upon request

CC3T

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC3T26	26	19*38	0.0380	0.0420	0.97	1.07	1.70		
CC3T24	24	19*36	0.0416	0.0454	1.06	1.15	2.34		
CC3T22	22	19*34	0.0476	0.0514	1.21	1.31	3.30		
CC3T20	20	19*32	0.0561	0.0599	1.42	1.52	4.93		
CC3T18	18	19*30	0.0659	0.0701	1.67	1.78	7.34		
CC3T16	16	19*29	0.0737	0.0783	1.87	1.99	9.30		
CC3T14	14	19*27	0.0896	0.0944	2.28	2.40	14.07		
CC3T12	12	37*28	0.1076	0.1134	2.73	2.88	21.08		
CC3T10	10	37*26	0.1290	0.1370	3.28	3.48	32.78		
CC3T8	8	133*29	0.1884	0.2028	4.79	5.15	60.59		
CC3T6	6	133*27	0.2333	0.2509	5.93	6.37	94.70		
CC3T4	4	133*25	0.3003	0.3219	7.63	8.18	154.00		
CC3T2	2	665*30	0.3695	0.3965	9.39	10.07	240.20		
CC3T01	01	1045*30	0.4490	0.4830	11.40	12.27	365.80		
CC3T02	02	1330*30	0.5047	0.5453	12.82	13.85	481.00		

CC3S

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC3S26	26	19*38	0.0380	0.0420	0.97	1.07	1.70		
CC3S24	24	19*36	0.0416	0.0454	1.06	1.15	2.34		
CC3S22	22	19*34	0.0476	0.0514	1.21	1.31	3.30		
CC3S20	20	19*32	0.0561	0.0599	1.42	1.52	4.93		
CC3S18	18	19*30	0.0659	0.0701	1.67	1.78	7.34		
CC3S16	16	19*29	0.0737	0.0783	1.87	1.99	9.30		
CC3S14	14	19*27	0.0896	0.0944	2.28	2.40	14.07		
CC3S12	12	37*28	0.1076	0.1134	2.73	2.88	21.08		
CC3S10	10	37*26	0.1290	0.1370	3.28	3.48	32.78		
CC3S8	8	133*29	0.1884	0.2028	4.79	5.15	60.59		
CC3S6	6	133*27	0.2333	0.2509	5.93	6.37	94.70		
CC3S4	4	133*25	0.3003	0.3219	7.63	8.18	154.00		
CC3S2	2	665*30	0.3695	0.3965	9.39	10.07	240.20		
CC3S01	01	1045*30	0.4490	0.4830	11.40	12.27	365.80		

CC3N

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC3N26	26	19*38	0.0380	0.0420	0.97	1.07	1.70		
CC3N24	24	19*36	0.0416	0.0454	1.06	1.15	2.34		
CC3N22	22	19*34	0.0476	0.0514	1.21	1.31	3.30		
CC3N20	20	19*32	0.0561	0.0599	1.42	1.52	4.93		
CC3N18	18	19*30	0.0659	0.0701	1.67	1.78	7.34		
CC3N16	16	19*29	0.0737	0.0783	1.87	1.99	9.30		
CC3N14	14	19*27	0.0896	0.0944	2.28	2.40	14.07		
CC3N12	12	37*28	0.1076	0.1134	2.73	2.88	21.08		
CC3N10	10	37*26	0.1290	0.1370	3.28	3.48	32.78		
CC3N8	8	133*29	0.1884	0.2028	4.79	5.15	60.59		
CC3N6	6	133*27	0.2333	0.2509	5.93	6.37	94.70		
CC3N4	4	133*25	0.3003	0.3219	7.63	8.18	154.00		
CC3N2	2	665*30	0.3695	0.3965	9.39	10.07	240.20		
CC3N01	01	1045*30	0.4490	0.4830	11.40	12.27	365.80		
CC3N02	02	1330*30	0.5047	0.5453	12.82	13.85	481.00		

CC3V

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC3V26	26	19*38	0.0380	0.0420	0.97	1.07	1.70		
CC3V24	24	19*36	0.0416	0.0454	1.06	1.15	2.34		
CC3V22	22	19*34	0.0476	0.0514	1.21	1.31	3.30		
CC3V20	20	19*32	0.0561	0.0599	1.42	1.52	4.93		
CC3V18	18	19*30	0.0659	0.0701	1.67	1.78	7.34		
CC3V16	16	19*29	0.0737	0.0783	1.87	1.99	9.30		

CC3K

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC3K26	26	19*38	0.0380	0.0420	0.97	1.07	1.70		
CC3K24	24	19*36	0.0416	0.0454	1.06	1.15	2.34		
CC3K22	22	19*34	0.0476	0.0514	1.21	1.31	3.30		
CC3K20	20	19*32	0.0561	0.0599	1.42	1.52	4.93		
CC3K18	18	19*30	0.0659	0.0701	1.67	1.78	7.34		
CC3K16	16	19*29	0.0737	0.0783	1.87	1.99	9.30		

Additional information

Equivalent to 55PC08

Fluid Resistant

UV markable



CROSSLINKED ETFE CC: CROSSLINK COMMERCIAL

CC4T, CC4S, CC4N, CC4V, & CC4K

Applications

Designed for general purpose aircraft wiring application. These thick wall dual layer constructions can be used in protected area, airframe area, swamp area and high vibration area, or inside a cable.

1000 V

Construction

CONDUCTOR

CC4T: Tin coated copper

CC4S: Silver coated copper

CC4N: Nickel coated copper

CC4V: Silver coated high strength copper alloy

CC4K: Nickel coated high strength copper alloy



INSULATION

15 mil nominal wall thickness

1st Layer: XL-ETFE

2nd Layer: XL-ETFE

Temperature Rating

CC4T: 150°C

CC4S: 200°C

CC4N: 200°C

CC4V: 200°C

CC4K: 200°C



CC4T: -65° to 150°C

CC4S, CC4N, CC4V, CC4K: -65° to 200°C



CC4T, CC4S, CC4N compliant

CC4V, CC4K compliant upon request

CC4T

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC4T26	26	19*38	0.0480	0.0520	1.22	1.32	2.24		
CC4T24	24	19*36	0.0532	0.0578	1.35	1.47	3.08		
CC4T22	22	19*34	0.0592	0.0638	1.50	1.62	4.19		
CC4T20	20	19*32	0.0671	0.0719	1.70	1.83	5.86		
CC4T18	18	19*30	0.0769	0.0821	1.95	2.09	8.40		
CC4T16	16	19*29	0.0844	0.0896	2.14	2.28	10.42		
CC4T14	14	19*27	0.0991	0.1049	2.52	2.66	15.29		
CC4T12	12	37*28	0.1170	0.1240	2.97	3.15	22.54		
CC4T10	10	37*26	0.1390	0.1480	3.53	3.76	34.62		

CC4S

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC4S26	26	19*38	0.0480	0.0520	1.22	1.32	2.24		
CC4S24	24	19*36	0.0532	0.0578	1.35	1.47	3.08		
CC4S22	22	19*34	0.0592	0.0638	1.50	1.62	4.19		
CC4S20	20	19*32	0.0671	0.0719	1.70	1.83	5.86		
CC4S18	18	19*30	0.0769	0.0821	1.95	2.09	8.40		
CC4S16	16	19*29	0.0844	0.0896	2.14	2.28	10.42		
CC4S14	14	19*27	0.0991	0.1049	2.52	2.66	15.29		
CC4S12	12	37*28	0.1170	0.1240	2.97	3.15	22.54		
CC4S10	10	37*26	0.1390	0.1480	3.53	3.76	34.62		

CC4N

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC4N26	26	19*38	0.0480	0.0520	1.22	1.32	2.24		
CC4N24	24	19*36	0.0532	0.0578	1.35	1.47	3.08		
CC4N22	22	19*34	0.0592	0.0638	1.50	1.62	4.19		
CC4N20	20	19*32	0.0671	0.0719	1.70	1.83	5.86		
CC4N18	18	19*30	0.0769	0.0821	1.95	2.09	8.40		
CC4N16	16	19*29	0.0844	0.0896	2.14	2.28	10.42		
CC4N14	14	19*27	0.0991	0.1049	2.52	2.66	15.29		
CC4N12	12	37*28	0.1170	0.1240	2.97	3.15	22.54		
CC4N10	10	37*26	0.1390	0.1480	3.53	3.76	34.62		

■ CC4V

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC4V26	26	19*38	0.0480	0.0520	1.22	1.32	2.24		
CC4V24	24	19*36	0.0532	0.0578	1.35	1.47	3.08		
CC4V22	22	19*34	0.0592	0.0638	1.50	1.62	4.19		
CC4V20	20	19*32	0.0671	0.0719	1.70	1.83	5.86		
CC4V18	18	19*30	0.0769	0.0821	1.95	2.09	8.40		
CC4V16	16	19*29	0.0844	0.0896	2.14	2.28	10.42		

■ CC4K

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
CC4K26	26	19*38	0.0480	0.0520	1.22	1.32	2.24		
CC4K24	24	19*36	0.0532	0.0578	1.35	1.47	3.08		
CC4K22	22	19*34	0.0592	0.0638	1.50	1.62	4.19		
CC4K20	20	19*32	0.0671	0.0719	1.70	1.83	5.86		
CC4K18	18	19*30	0.0769	0.0821	1.95	2.09	8.40		
CC4K16	16	19*29	0.0844	0.0896	2.14	2.28	10.42		

■ Additional information

Equivalent to 55PC07

Fluid Resistant

UV markable



Part 2

Cables for power transmission

ASNE 0438 YV

Flexible light weight wires single core large sizes

Applications

Designed for general purpose aircraft wiring applications.

600 Volts RMS

Construction

CONDUCTOR

Stranded conductor made of nickel plated aluminium

INSULATION

3 polyimide tapes

EXTERNAL PROTECTION

Aromatic polyimide braid impregnated with a non flammable varnish



Other characteristics

Operating frequency : up to 2000 Hz
Mould and fungus resistant

Standards

AECMA EN3719 (conductors)
ASNE 0438
NSA 935000
NSA 307110
AS N°462396/85



-55°C to +180°C
(up to +200°C peak)



Flame retardant
FAR/JAR part 25
sec 25.869, (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids

ASNE 0438 YV (Inch, pound)

PART NUMBER	AWG	Conductor				Finished wire or cable		
		Stranding m x n x Diam. in inch	Diam. inch	Nbr of strands missing allowed	Maximum DC Resistance at 20°C (68°F) (Ohms/1000 ft)	Diameter (inch)	Maximum Weight (lb/1000 ft)	
						Min.	Max.	
YV 06	6	7 x 10 x 0.020	0.197 ± 0.010	0	0.671	0.228	0.252	36.9
YV 04	4	7 x 15 x 0.020	0.240 ± 0.012	0	0.457	0.272	0.295	51.7
YV 03	3	7 x 19 x 0.020	0.268 ± 0.012	0	0.360	0.315	0.331	64.5
YV 02	2	7 x 24 x 0.020	0.303 ± 0.012	2	0.287	0.339	0.362	79.9
YV 01	1	7 x 30 x 0.020	0.339 ± 0.012	2	0.229	0.374	0.398	100.0
YV 0A	0	19 x 14 x 0.020	0.394 ± 0.012	3	0.183	0.425	0.457	124.9
YV 00	00	19 x 18 x 0.020	0.449 ± 0.012	3	0.131	0.480	0.520	161.1
YV 000 (1)	000	19 x 22 x 0.020	0.500 ± 0.012	4	0.110	0.524	0.571	194.7
YV 0000 (1)	0000	37 x 15 x 0.020	0.569 ± 0.014	5	0.088	0.594	0.642	248.4

Cables for power transmission

ASNE 0438 YV (Metric units)

PART NUMBER	AWG	Conductor				Finished wire or cable		
		Stranding (m x n x Diam.) mm	Diam. (mm)	Nbr of strands missing allowed	Maximum DC resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)	Maximum weight (g/m)	
						Min.	Max.	
YV 06	6	7 x 10 x 0.51	5.0 ± 0.25	0	2.20	5.8	6.4	55
YV 04	4	7 x 15 x 0.51	6.1 ± 0.30	0	1.50	6.9	7.5	77
YV 03	3	7 x 19 x 0.51	6.8 ± 0.30	0	1.18	8.0	8.4	96
YV 02	2	7 x 24 x 0.51	7.7 ± 0.30	2	0.94	8.6	9.2	119
YV 01	1	7 x 30 x 0.51	8.6 ± 0.30	2	0.75	9.5	10.1	149
YV 0A	0	19 x 14 x 0.51	10.0 ± 0.30	3	0.60	10.8	11.6	186
YV 00	00	19 x 18 x 0.51	11.4 ± 0.30	3	0.43	12.2	13.2	240
YV 000 (1)	000	19 x 22 x 0.51	12.7 ± 0.30	4	0.36	13.3	14.5	290
YV 0000 (1)	0000	37 x 15 x 0.51	14.45 ± 0.35	5	0.29	15.1	16.3	370

(1) AWG not defined in ASN specification, values obtained by extension with defined construction

Identification

By colored threads between polyimide tapes and external braid

1, 2 or 3 threads for manufacturer : i.e. Black + Grey = Nexans

2 threads for year of manufacturing : i.e. Yellow + Purple = 2008

Wire size AWG 06, 03, 01, 00 and 0000 are identified with 1 black carrier in the external aromatic polyamide braid

NSA 935 308 YU

Flexible single core large sizes

Applications

Designed for general purpose aircraft wiring applications.

600 Volts RMS

Construction

CONDUCTOR

Stranded conductor made of aluminium alloy

INSULATION

3 polyimide tapes

EXTERNAL PROTECTION

Aromatic polyimide braid impregnated with a non flammable varnish



Other characteristics

Operating frequency : up to 2000 Hz

Mould and fungus resistant

Standards

AECMA EN3719 (conductors)

NSA 935 308

NSA 935000

NSA 307110



-55°C to +150°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids

■ NSA 935 308 YU (Metric units)

PART NUMBER	AWG	Conductor				Finished wire or cable		
		Stranding (m x n x Diam.) mm	Diameter (mm)	Nbr of strands missing allowed	Max. DC resistance at 20°C (68°F) Ohms/Km	Diameter (mm)	Maximum weight (g/m)	
						Min.	Max.	
YU 12 (1)	12	45 x 0.30	2.4 ± 0.20	0	10			16.5
YU 10 (1)	10	27 x 0.51	2.9 ± 0.20	0	5.8			26
YU 8 (1)	8	41 x 0.51	3.7 ± 0.20	0	3.8			35
YU 6 (1)	6	7 x 10 x 0.51	5.0 ± 0.25	0	2.20			55
YU 4	4	7 x 15 x 0.51	6.1 ± 0.30	0	1.50			84
YU 3 (1)	3	7 x 19 x 0.51	6.8 ± 0.30	0	1.18			96
YU 2 (1)	2	7 x 24 x 0.51	7.7 ± 0.30	2	0.94			120
YU 1 (1)	1	7 x 30 x 0.51	8.6 ± 0.30	2	0.75			149
YU 0	0	19 x 14 x 0.51	10.0 ± 0.30	3	0.66			199
YU 00	00	19 x 18 x 0.51	11.4 ± 0.30	3	0.43			256
YU 000	000	19 x 22 x 0.51	12.7 ± 0.30	4	0.36			309
YU 000	0000	37 x 15 x 0.51	14.45 ± 0.35	5	0.29			390

(1) AWG not defined in NSA specification, values obtained by extension with defined construction

Cables for power transmission

■ Identification

By colored threads between polyimide tapes and external braid

Manufacturer color: Black + Grey = Nexans

Manufacturing year : Yellow + Purple = 2008

SMOOTH COMPOSITE WIRE SAE AS22759

AS22759/183 and AS22759/185

Applications

Designed for general purpose aircraft wiring application and for power transmission.

These constructions can be used in protected area, airframe area and swamp area, or inside a cable.

600 V

Construction

CONDUCTOR

AS22759/183: Silver coated copper
AS22759/185: Tin coated copper

INSULATION

Smooth surface
PTFE/POLYIMIDE TAPE WRAP
(13.2 - 16.2 MIL NOM.)
META-ARAMID FIBER BRAID



DSCC EQUIVALENT

AS22759/183: 04037
AS22759/185: 04039

Temperature Rating

AS22759/183: 200°C
AS22759/185: 150°C



AS22759/183: -65° to 200°C
AS22759/185: -65° to 150°C



AS22759/183: DF
AS22759/185: DH



Arc resistant



Flame resistant



RoHS

AS22759/183

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
759183-8	2	133*29	0.192	0.213	4.877	5.410	62.6		
759183-6	6	133*27	0.231	0.254	5.867	6.452	93.0		
759183-4	4	133.25	0.288	0.313	7.315	7.950	150.0		
759183-2	2	665*30	0.356	0.389	9.042	9.881	231.0		
759183-1	1	817*30	0.400	0.433	10.160	10.998	298.0		
759183-01	0	1045*30	0.432	0.475	10.973	12.065	357.0		
759183-02	00	1330*30	0.487	0.530	12.370	13.462	454.0		

AS22759/185

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
759185-8	2	133*29	0.192	0.213	4.877	5.410	62.8		
759185-6	6	133*27	0.231	0.254	5.867	6.452	93.0		
759185-4	4	133.25	0.288	0.313	7.315	7.950	150.0		
759185-2	2	665*30	0.356	0.389	9.14	9.65	231.0		
759185-1	1	817*30	0.400	0.433	10.16	10.66	298.0		
759185-01	0	1045*30	0.432	0.475	11.22	11.73	357.0		
759185-02	00	1330*30	0.487	0.530	12.64	13.41	454.0		

Additional information

Arc Resistant (greatly improved compare to non smooth technology)

Fluid Resistant

Abrasion Resistant

UV Laser markable

Smooth outer surface

COMPOSITE WIRE SAE AS22759

AS22759/83 and AS22759/85

Applications

Designed for general purpose aircraft wiring application and for power transmission.

These constructions can be used in protected area, airframe area and swamp area, or inside a cable.

600 V

Construction

CONDUCTOR

AS22759/83: Silver coated copper

AS22759/85: Tin coated copper

INSULATION

PTFE/POLYIMIDE TAPE WRAP

(13.2 - 16.2 MIL NOM.)

META-ARAMID FIBER BRAID



Temperature Rating

AS22759/83: 200°C

AS22759/85: 150°C



AS22759/83: -65° to 200°C
AS22759/85: -65° to 150°C



AS22759/83: WF
AS22759/85: WH



Arc resistant



Flame resistant



For Red, Orange & Yellow solid colors: compliant upon except
White and other colors: compliant

AS22759/83

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75983-8	2	133*29	0.192	0.213	4.877	5.410	62.6		
75983-6	6	133*27	0.231	0.254	5.867	6.452	93.0		
75983-4	4	133.25	0.288	0.313	7.315	7.950	150.0		
75983-2	2	665*30	0.356	0.389	9.042	9.881	231.0		
75983-1	1	817*30	0.400	0.433	10.160	10.998	298.0		
75983-01	0	1045*30	0.432	0.475	10.973	12.065	357.0		
75983-02	00	1330*30	0.487	0.530	12.370	13.462	454.0		

AS22759/85

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75985-8	2	133*29	0.192	0.213	4.877	5.410	62.8		
75985-6	6	133*27	0.231	0.254	5.867	6.452	93.0		
75985-4	4	133.25	0.288	0.313	7.315	7.950	150.0		
75985-2	2	665*30	0.356	0.389	9.14	9.65	231.0		
75985-1	1	817*30	0.400	0.433	10.16	10.66	298.0		
75985-01	0	1045*30	0.432	0.475	11.22	11.73	357.0		
75985-02	00	1330*30	0.487	0.530	12.64	13.41	454.0		

Additional information

Arc Resistant
Fluid Resistant
Abrasion Resistant
UV Laser markable

Applications

Designed for general purpose aircraft wiring applications.

600 Volts RMS

Construction

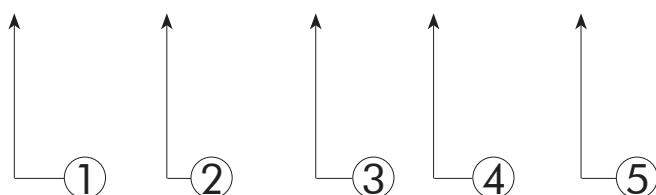
CONDUCTOR

1- Stranded conductor made of nickel plated copper



INSULATION

2- Polyimide tape



3- PTFE tape

4- Glass fiber tape

5- PTFE tape

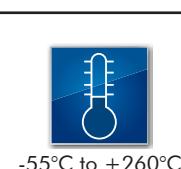
Other characteristics

Operating frequency : up to 2000 Hz

Standards

VG 95218-2

VG 95218-20



-55°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (g)(4)
Appendix F
part 1 (3)



Arc tracking
resistant



Very good
resistance to
aircraft fluids

FX 5400

TYPE J : single core nickel plated copper

VG Reference	NEXANS Part number	Dash num- ber (VG)	Size code (NEXANS)	AWG (1)	Conductor	
					Stranding Nbr x Diam of strands	Diameter Max.
					(mm)	(mm)
VG 95218T020J019	FX 5400-050	01	050	10	73 x 0.30	3.3
VG 95218T020J029	FX 5400-090	02	090	8	127 x 0.30	4.5
VG 95218T020J039	FX 5400-140	03	140	6	27 x 7 x 0.30	5.6
VG 95218T020J049	FX 5400-220	04	220	4	37 x 12 x 0.25	7.3
VG 95218T020J059	FX 5400-340	05	340	2	37 x 19 x 0.25	8.8
VG 95218T020J069	FX 5400-420	06	420	1	37 x 23 x 0.25	10.0
VG 95218T020J079	FX 5400-530	07	530	0	37 x 29 x 0.25	11.3
VG 95218T020J089	FX 5400-680	08	680	00	37 x 37 x 0.25	12.5
VG 95218T020J099	FX 5400-850	09	850	000	48 x 36 x 0.25	14.4
VG 95218T020J109	FX 5400-107	10	107	0000	61 x 36 x 0.25	15.9

(1) For information only

VG Reference	NEXANS Part number	Finished Wire			
		Diameter (mm)		Weight max. (g/m)	Maximum DC resistance at 20°C (68°F) (Ohms/Km)
		min.	max.		
VG 95218T020J019	FX 5400-050	4.1	4.5	64.5	3.9
VG 95218T020J029	FX 5400-090	5.2	5.6	108	2.3
VG 95218T020J039	FX 5400-140	6.3	7.3	160	1.6
VG 95218T020J049	FX 5400-220	8.1	9.3	245	0.97
VG 95218T020J059	FX 5400-340	9.7	10.9	396	0.61
VG 95218T020J069	FX 5400-420	10.6	12.1	470	0.50
VG 95218T020J079	FX 5400-530	11.8	13.4	600	0.40
VG 95218T020J089	FX 5400-680	13.6	14.5	750	0.31
VG 95218T020J099	FX 5400-850	15.6	16.8	950	0.25
VG 95218T020J109	FX 5400-107	17.0	18.4	1200	0.20

Identification

Color : white

Marking :

VG 95218T020J ** £ F 0241 ++ DG

With :

** = Dash number

£ = Color (9: white)

F 0241 = Manufacturer's cage code

++ = Year of production (i.e. 08 = 2008)

DG = Cable code according to TR 6058

NSA 935 131 - EN 2854-003 DG

Aircraft wire

Applications

Designed for general purpose aircraft wiring applications.

600 Volts RMS

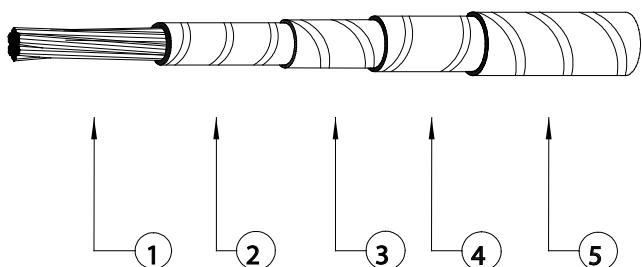
Construction

CONDUCTOR

- 1- Stranded conductor nickel plated copper

INSULATION

- 2- Polyimide tape
- 3- PTFE tape(s)
- 4- Glass fiber tape
- 5- PTFE tape(s)



Other characteristics

Operating frequency : up to 2000 Hz
Mould and fungus resistant
Non flammable

Standards

NSA 935131
EN 2854-003



-55°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (g)(4)
Appendix F
part 1 (3)



Arc tracking
resistant



Very good
resistance to
aircraft fluids

NEXANS Part Number	Nominal section (mm ²)	AWG	Conductor		Finished Wire			Maximum DC Resistance at 20°C (68°F) (Ohms/Km)
			Stranding Nbr x Dia. of strands (mm)	Diameter Max. (mm)	Min.	Max.	Weight max. (g/m)	
NSA 935 131 DG 10	5.15	10	73 x 0.30	3.3	4.1	4.5	64.5	3.9
NSA 935 131 DG 8	8.98	8	127 x 0.30	4.5	5.2	5.6	108	2.3
NSA 935 131 DG 6	13.4	6	27 x 7 x 0.30	5.6	6.3	7.3	160	1.6
NSA 935 131 DG 4	21.8	4	37 x 12 x 0.25	7.3	8.1	9.3	245	0.97
NSA 935 131 DG 2	34.5	2	37 x 19 x 0.25	8.8	9.7	10.9	396	0.61
NSA 935 131 DG 1	41.8	1	37 x 23 x 0.25	10.0	10.6	12.1	470	0.50
NSA 935 131 DG 0	52.7	0	37 x 29 x 0.25	11.3	11.8	13.4	600	0.40
NSA 935 131 DG 00	67.2	00	37 x 37 x 0.25	12.5	13.6	14.5	750	0.31
NSA 935 131 DG 000	84.8	000	48 x 36 x 0.25	14.4	15.6	16.8	950	0.25
NSA 935 131 DG 0000	107.8	0000	61 x 36 x 0.25	15.9	17.0	18.4	1200	0.20

Cables for power transmission

Identification

Color : white

Marking :

DG ** FR F ++

With :

** = AWG

FR = Country of origin (FR = France)

F = Manufacturer (F = Nexans)

++ = Year of production (i.e. 08 = 2008)

Applications

Use in Aero-engine services

600 Volts RMS

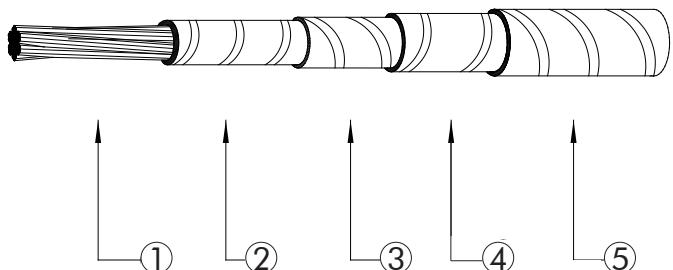
Construction

CONDUCTOR

- 1- Stranded conductor made of nickel plated copper

INSULATION

- 2- Polyimide tape
- 3- PTFE tapes
- 4- PTFE coated fiberglass tape
- 5- PTFE tapes



Other characteristics

Mould and fungus resistant

Standards

ESW 1000-010



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHs

■ ESW 1000-010- XXX (Metric units)

REFERENCE	AWG	Conductor				Finished Cable		
		Stranding m x n x Diam. (mm)	Diameter (mm)	Number of Strands Max	Maximum DC resistance at 20°C (68°F)	Diameter (mm)	Maximum Weight (Kg/Km)	
			Max.		(Ohms/Km)	Nom.	Max.	
ESW1000-010-090	8	127 x 0.30	4.5	127	2.30	*	6.25	108
ESW1000-010-140	6	27 x 7 x 0.30	5.6	189	1.58	*	7.30	160
ESW1000-010-220	4	37 x 12 x 0.25	7.3	444	0.97	9.24	9.30	245
ESW1000-010-340	2	37 x 19 x 0.25	8.8	703	0.61	10.93	11.30	420
ESW1000-010-420	1	37 x 23 x 0.25	10.0	851	0.51	*	12.40	500
ESW1000-010-530	0	37 x 29 x 0.25	11.3	1073	0.40	12.55	13.15	630
ESW1000-010-680	00	37 x 37 x 0.25	12.5	1369	0.32	14.20	14.45	800
ESW1000-010-850	000	48 x 36 x 0.25	14.4	1728	0.25	15.58	16.05	1010
ESW1000-010-107	0000	61 x 36 x 0.25	15.9	2196	0.20	17.22	17.55	1270

* To be defined

Cables for power transmission

■ Identification

Color of cable : white

Marking :

Color : Green

Marking:

ESW1000-010-xxx-FX-FF-**

With :

xxx = Size code

** = Year of production (ie. 08 = 2008)

Applications

Aero engine services

600 Volts RMS

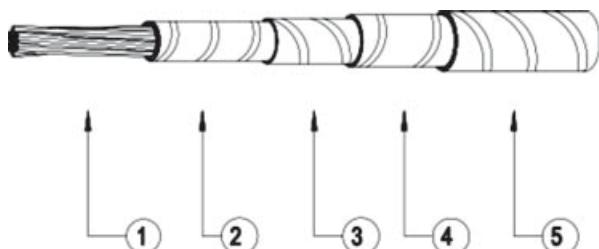
Construction

CONDUCTOR

- 1- A Stranded Conductor
Made of Nickel Plated
Aluminium

INSULATION

- 2- POLYIMIDE Tape
3- PTFE tape(s)
4- PTFE Coated Fiberglass
Tape
5- PTFE tapes



Other characteristics

Mould and fungus resistant

Standards

SP799- ESW1000-010 - JES 292



-65°C to +180°C



Flame retardant
FAR/JAR part 25
sec 25.869, (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids

REFERENCE	AWG	Cross section (mm ²)	Conductor			Finished Wire		
			Stranding m x n x Diam. (mm)	Diameter (mm) Max.	Resistance at 20°C (68°F) (Ohms/1000 ft) Max.	Diameter (mm)		Weight (Kg/Km)
					Min.	Max.	Max.	Max.
Study 133010	2	34.3	168 x 0.51	8.0	0.94	0.100	0.116	10.0
Study 133011	1	42.9	210 x 0.51	8.9	0.75	0.109	0.125	12.0
Study 133012	0	54.3	266 x 0.51	10.3	0.60	0.119	0.135	15.0
Study 132877	00	69.9	342 x 0.51	11.7	0.43	0.127	0.147	19.0
Study 133013	000	85.4	418 x 0.51	13.0	0.36	0.150	0.170	25.0
Study 132878	0000	110.3	540 x 0.51	14.8	0.29	0.165	0.185	35.0

Qualification test

JES 292 Annex C Ref	Title	No. of samples per cable size	Remarks		
001	Visual examination	2			
002	Examination of dimension and mass	1		See table I	
003	Mechanical properties of conductor (tensile strength only)	2		Tensile strength of each individual strand > 105 MPa.	
007	Notch propagation resistance test	1		Mandrel 22 times diameter of cable	
008	Resistance to fluids	14		RT Bend Test to ref. 062 of this Table	
010	Torsion test (delamination)	1		T1 = 180 ± 5°C T2 = 230 ± 5°C	
011	Identification durability	1		Test temperature 20 ± 5°C Min cycles 100 Applied Force 2.0N	
013	Fluid wicking	1		1% max weight increase	
017	Colour fastness to light	3			
018	Climatic cycle	3			
024	1. Delamination and shrinkage	2		Max shrinkage One half of max outside diameter. Time 6 hours at 230 ± 5°C	
025	Flame resistance test	1		Time to flame extinction 15 seconds	
050	High voltage test	3		Immersion: 2500 ± 75 V rms Dry impulse: 8000 ± 250 V peak	
051	Insulation resistance	1			
052	Surface resistance	2			
061	Accelerated ageing	1		Conduct at 230 ± 3°C	
062	Room temp bend test	2	Size	Mandrel Diameter	Tension (N)
			340	22 x max OD	70
			420	"	70
			530	"	120
			680	"	120
			850	"	150
066	High temp cyclic endurance	2		T1 = 180 ± 5°C T2 = 230 ± 5°C	

■ Production acceptance test

JES 292 Annex C Ref	Title	Remarks
JES 292	Ohmic resistance	See table I
001	Visual examination	
002	Examination of dimension and mass	See table I
003	Mechanical properties of conductor or strand	
050	High voltage dry impulse	

■ Identification

Colour of cable :

White

Marking :

Colour: Green

Wording: ET 132877 FRF**

With :

**= Year of manufacturing

Part 3-1

Nacelles and engines high temperature

SMOOTH COMPOSITE WIRE SAE AS22759

AS22759/184

Applications

Designed for general purpose aircraft wiring application and for power transmission.

These constructions can be used in protected area, airframe area and swamp area, or inside a cable.

AS22759/184 can be used in nacelles and engines high temperature area.

600 V

Construction

CONDUCTOR

AS22759/184: Nickel coated copper

INSULATION

Smooth surface

PTFE/POLYIMIDE TAPE WRAP
(13.2 - 16.2 MIL NOM.)
META-ARAMID FIBER BRAID



Temperature Rating

AS22759/184: 260°C

DSCC Equivalent

AS22759/184: 04038



AS22759/184: -65° to 260°C AS22759/184: DG



WC27500



Arc resistant



Flame resistant



RoHs

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
759184-8	2	133*29	0.192	0.213	4.877	5.410	62.5		
759184-6	6	133*27	0.231	0.254	5.867	6.452	93.0		
759184-4	4	133.25	0.288	0.313	7.315	7.950	150.0		
759184-2	2	665*30	0.356	0.389	9.042	9.881	231.0		
759184-1	1	817*30	0.400	0.433	10.160	10.998	298.0		
759184-01	0	1045*30	0.432	0.475	10.973	12.065	357.0		
759184-02	00	1330*30	0.487	0.530	12.370	13.462	454.0		

Additional information

Arc Resistant (greatly improved compare to non smooth technology)

Fluid Resistant

Abrasion Resistant

UV Laser markable

Smooth outer surface

COMPOSITE WIRE SAE AS22759

AS22759/84

Applications

Designed for general purpose aircraft wiring application and for power transmission.

These constructions can be used in protected area, airframe area and swamp area, or inside a cable.

AS22759/84 can be used in nacelles & engines high temperature area.

600 V

Construction

CONDUCTOR

AS22759/84: Nickel coated copper

INSULATION

PTFE/POLYIMIDE TAPE WRAP

(13.2 - 16.2 MIL NOM.)

META-ARAMID FIBER BRAID



Temperature Rating

AS22759/84: 260°C



AS22759/84: -65° to 260°C



AS22759/84: WG



Arc resistant



Flame resistant



For Red, Orange & Yellow solid colors: compliant upon except
White and other colors: compliant

Nexans references	AWG	Conductor Standing (Nbr x mm)	Finished wire					Weight Max. (LBS/1000 ft)	
			Diameter						
			Min. (inch)	Max. (inch)	Min. (mm)	Max. (mm)			
75984-8	2	133*29	0.192	0.213	4.877	5.410	62.5		
75984-6	6	133*27	0.231	0.254	5.867	6.452	93.0		
75984-4	4	133.25	0.288	0.313	7.315	7.950	150.0		
75984-2	2	665*30	0.356	0.389	9.042	9.881	231.0		
75984-1	1	817*30	0.400	0.433	10.160	10.998	298.0		
75984-01	0	1045*30	0.432	0.475	10.973	12.065	357.0		
75984-02	00	1330*30	0.487	0.530	12.370	13.462	454.0		

Additional information

Arc Resistant
Fluid Resistant
Abrasion Resistant
UV Laser markable

Nacelles and engines:
High temperature

BMS 13-58

High temperature, UV laser printable aircraft wire

Applications

Designed for general purpose aircraft wiring where exposure to thermal changes and corrosive fluids is normal.

600 Volts RMS

Construction

CONDUCTOR

Nickel coated copper (type 1)
Nickel coated high strength
copper alloy (type 5)

INSULATION

PTFE tape
Polyimide tape
PTFE coated glass tape (AWG 8
to 4/0 only)
PTFE coated glass braid
UV PTFE tapes jacket



Other characteristics

Operating frequency : up to 2000 Hz
Abrasion resistant
Good mechanical and electrical performances

Standards

BMS 13-58 QPL

Product range

Shielded and jacketed T3, T7, T9 cables are available upon request
Shielded T2, T6 cables are available upon request
Jacketed T4, T8 cables are available upon request



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Arc tracking
resistant



Very good
resistance to
aircraft fluids

BMS 13-58 Type 1 (Metric units)

PART NUMBER	US AWG	Conductor			Finished Wire				
		Stranding (Number of strands x Dia.of Strands (mm))	Diameter (mm)		Resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)		Weight (Kg/Km)	
			Nom.	Max.		Max.	Min.	Max.	Min.
BMS 13-58 T1	24	19 x 0.127	0.58	0.66	86	1.75	1.91	6.4	7.23
BMS 13-58 T1	22	19 x 0.16	0.74	0.84	52.5	1.85	2.01	7.89	8.72
BMS 13-58 T1	22	19 x 0.20	0.94	1.04	32.1	2.03	2.18	9.73	11.55
BMS 13-58 T1	18	19 x 0.25	1.17	1.30	22	2.31	2.46	13.91	16.07
BMS 13-58 T1	16	19 x 0.30	1.32	1.47	15.6	2.41	2.62	17.26	19.05
BMS 13-58 T1	14	19 x 0.36	1.65	1.85	9.84	2.77	2.97	24.10	26.93
BMS 13-58 T1	12	37 x 0.32	2.13	2.29	6.5	3.25	3.45	34.60	38.69
BMS 13-58 T1	10	37 x 0.40	2.69	2.90	4.07	3.71	4.01	51.48	57.88
BMS 13-58 T1	8	19 x 7 x 0.287	4.01	4.39	2.28	5.46	5.77	94.04	106.84
BMS 13-58 T1	6	19 x 7 x 0.360	5.03	5.51	1.43	6.38	7.14	138.23	161.75
BMS 13-58 T1	4	19 x 7 x 0.455	6.35	6.96	0.902	7.77	8.64	217.54	254.15
BMS 13-58 T1	2	19 x 35 x 0.254	8.13	8.64	0.581	9.83	10.49	348.04	401.46
BMS 13-58 T1	1/0	19 x 55 x 0.254	10.03	10.80	0.371	11.79	12.6	510.23	610.53
BMS 13-58 T1	2/0	19 x 70 x 0.254	11.18	12.07	0.292	12.88	14.15	566.18	765.58
BMS 13-58 T1	3/0	37 x 45 x 0.254	12.70	13.72	0.233	14.17	15.44	793.10	941.9
BMS 13-58 T1	4/0	37 x 57 x 0.254	14.35	15.37	0.184	15.95	17.25	1031.63	1125

BMS 13-58 Type 1 (Inch, Pound)

PART NUMBER	US AWG	Conductor			Finished Wire				
		Stranding (number of strands x dia.of strands) inch	Diameter (inch)		Resistance at 20°C (68°F) Ohms/1000 ft	Diameter (inch)		Weight (Pound/1000 ft)	
			Min.	Max.		Max.	Min.	Max.	Min.
BMS 13-58 T1	24	19 x 0.050	0.023	0.026	26.20	0.069	0.075	4.30	4.86
BMS 13-58 T1	22	19 x 0.0063	0.029	0.033	16.00	0.073	0.079	5.30	5.86
BMS 13-58 T1	22	19 x 0.0080	0.037	0.041	9.77	0.080	0.086	6.54	7.76
BMS 13-58 T1	18	19 x 0.010	0.046	0.051	6.70	0.091	0.097	9.35	10.80
BMS 13-58 T1	16	19 x 0.0113	0.052	0.058	4.76	0.095	0.103	11.60	12.80
BMS 13-58 T1	14	19 x 0.0142	0.065	0.073	3.00	0.109	0.117	16.20	18.10
BMS 13-58 T1	12	37 x 0.0126	0.084	0.090	1.98	0.128	0.136	23.25	26.00
BMS 13-58 T1	10	37 x 0.0159	0.106	0.114	1.24	0.146	0.158	34.50	38.90
BMS 13-58 T1	8	19 x 7 x 0.0113	0.158	0.173	0.694	0.215	0.227	63.20	71.80
BMS 13-58 T1	6	19 x 7 x 0.0142	0.198	0.217	0.436	0.251	0.281	92.90	108.70
BMS 13-58 T1	4	19 x 7 x 0.0179	0.250	0.274	0.275	0.306	0.340	146.20	170.80
BMS 13-58 T1	2	19 x 35 x 0.0100	0.320	0.340	0.177	0.387	0.413	233.90	269.80
BMS 13-58 T1	1/0	19 x 55 x 0.0100	0.395	0.425	0.113	0.464	0.496	342.90	410.30
BMS 13-58 T1	2/0	19 x 70 x 0.0100	0.440	0.475	0.089	0.507	0.557	380.50	514.50
BMS 13-58 T1	3/0	37 x 45 x 0.0100	0.500	0.540	0.071	0.558	0.608	533.00	633.00
BMS 13-58 T1	4/0	37 x 57 x 0.0100	0.565	0.605	0.056	0.628	0.679	693.30	756.20

BMS 13-58 Type 5 (Metric units)

PART NUMBER	US AWG	Conductor			Finished Wire				
		Stranding (number of strands x dia. of strands) (mm)	Diameter (mm)		Resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)		Weight (Kg/Km)	
			Min.	Max.		Min.	Max.	Min.	Max.
BMS 13-58 T5	24	19 x 0.127	0.58	0.66	98.8	1.75	1.91	6.4	7.23
BMS 13-58 T5	22	19 x 0.16	0.74	0.84	61.0	1.85	2.01	7.89	8.72
BMS 13-58 T5	20	19 x 0.20	0.94	1.04	37.4	2.03	2.18	10.42	11.55
BMS 13-58 T5	18	19 x 0.25	1.17	1.30	23.6	2.31	2.46	15.19	16.07
BMS 13-58 T5	16	19 x 0.30	1.32	1.47	18.4	2.41	2.62	17.26	19.05

BMS 13-58 Type 5 (Inch, Pound)

PART NUMBER	US AWG	Conductor			Finished Wire				
		Stranding (Number of Strands x Dia.of Strands) inch	Diameter (inch)		Resistance at 20°C (68°F) (Ohms/1000ft)	Diameter (inch)		Weight (Pounds/1000 ft)	
			Min.	Max.		Min.	Max.	Min.	Max.
BMS 13-58 T5	24	19 x 0.050	0.023	0.026	30.1	0.069	0.075	4.30	4.86
BMS 13-58 T5	22	19 x 0.0063	0.029	0.033	18.6	0.073	0.079	5.30	5.86
BMS 13-58 T5	20	19 x 0.0080	0.037	0.041	11.4	0.080	0.086	7.00	7.76
BMS 13-58 T5	18	19 x 0.010	0.046	0.051	7.2	0.091	0.097	10.20	10.80
BMS 13-58 T5	16	19 x 0.0113	0.052	0.058	5.6	0.095	0.103	11.60	12.80

Identification

Marking :

In accordance with BMS 13-58 specification.

TYPE 2100

Flexible cables for high ambient temperatures

Applications

Designed for use at high ambient temperatures up to 289°C at peak.
Excellent flame resistance, non-flammable, they withstand most solvents.

600 Volts RMS

Construction

1- CONDUCTOR

Stranded nickel plated copper

2- Thin wrapped PTFE layer

3- INSULATION

Polyimide

4- OUTER JACKET

a) From 0.38 to 1.34 mm²:

Extruded PTFE sheath (high abrasion resistance)

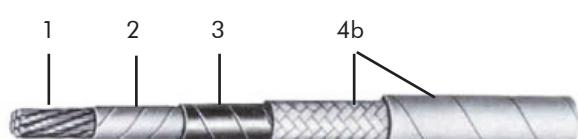
b) From 1.91 mm² :

Composite glass fiber + PTFE + wrapped and sintered PTFE sheath

Cross sections from 0.38 to 1.34 mm²



Cross sections from 1.91 mm²



Technical requirements and control conditions

AIR 4524 specification (09/1965) - Category 250/280°C,
NFL 52-125A french draft specification (07/1978) - Category C -
Standard cables.

Standards

AIR 4524, B.N.Aé, MIL-W-22759 D
Approved by the Air Ministry under
letter: N°42707 STA/EQ/E2 (03-
12- 68)

Registered at B.N.Aé : N° 6418 401

Interchangeability

MIL-W-22759 D specification - Index 8 A (06/1973) and MS 18001
(up to 12 AWG).



-50°C to +250°C



Flame retardant
FAR/JAR part 25
sec 25.869 (g)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHs

■ TYPE 2100

Nexans reference			Conductor		Core			Electrical Values	
			Construction	Maxi. Ø	Overall Ø	Weight		DC resistance at 20°C (max.)	Current rating
Type	Cross section	Gauge AWG	n x Ø mm	mm	mm	nom. g/m	max. g/m	Ω / km	A
2100	0.38	22	12 x 0.20	0.85	1.90 ± 0.10	8.6	9.3	54.50	7
2100	0.60	20	19 x 0.20	1.00	2.20 ± 0.10	12.1	12.4	34.40	11
2100	0.93	18	19 x 0.25	1.25	2.40 ± 0.10	15.8	17	22.00	16
2100	1.34	16	19 x 0.30	1.50	2.70 ± 0.10	19.6	20	15.30	22
2100	1.91	14	27 x 0.30	1.85	2.95 ± 0.10	26.1	27	10.80	32
2100	3.18	12	45 x 0.30	2.40	3.60 ± 0.15	40.8	46.7	6.50	41
2100	5.15	10	73 x 0.30	3.10	4.20 ± 0.20	60.4	65	3.40	55
2100	8.98	8	127 x 0.30	4.00	5.30 ± 0.20	102	108	2.30	75
2100	13.40	6	27 x 7 x 0.30	5.10	7.00 ± 0.30	158	160	1.60	100
2100	21.80	4	37 x 12 x 0.25	6.60	9.00 ± 0.30	237	245	0.97	135
2100	34.50	2	37 x 19 x 0.25	8.20	10.60 ± 0.30	391	396	0.61	181
2100	41.80	1	37 x 23 x 0.25	9.80	11.80 ± 0.30	460	470	0.50	211
2100	52.70	0	37 x 29 x 0.25	10.80	13.10 ± 0.30	580	600	0.40	245
2100	67.20	00	37 x 37 x 0.25	12.40	14.20 ± 0.30	736	750	0.31	283

Nacelles and engines:
High temperature

The currents shown are valid for single wires in air. For current ratings in bundle see AIR 7822 specification.

■ Identification

According to AIR 0107 (10/1961).

TYPE 2103

Flexible cables for high ambient temperature

Applications

Designed for use at high ambient temperature up to 300°C at peak.
 Vital circuits : they withstand overloads for 15 seconds to 2 minutes (870°C to 1040°C) according to MIL-W-7139 B standard. Non-flammable, good abrasion resistance, they withstand most solvents.

600 Volts RMS

Construction

1- CONDUCTOR

Stranded nickel plated copper or nickel plated copper alloy for 0.21 sq mm size (alloy providing a high mechanical resistance)

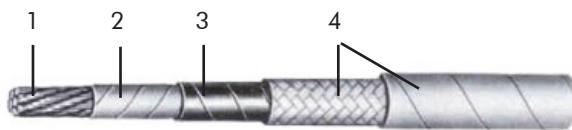
2- Thin PTFE layer

3- INSULATION

Polyimide insulation

4- PROTECTIVE INSULATION

PTFE + glass fiber tape coated with PTFE
 Wrapped PTFE finish sheath
 These tapes are intimately bonded to each other



Technical requirements and control conditions

AIR 4524 specification - Category 250/280°C

NFL 52-125A french draft specification (high temperature cable)

MIL-W-22759 B specification class 2 (Nickel plated copper conductor).

Standards

AIR 4524, MIL-W-22759 B

Approved by the Air Ministry under letters : N°34672 STA/EQ/E3 (25-05-77) for cross section from 0.38 mm² to 107.80 mm² ; N°40784 STA/EQ/E3 (22-12-77) for cross section 0.21 mm²

Registered at B.N.Aé : N° 6418404A



-90°C to +260°C



Flame retardant
 FAR/JAR part 25
 sec 25.869 (g)(4)
 Appendix F
 part 1 (3)



Very good
 resistance to
 aircraft fluids



RoHs

■ TYPE 2103

References		Gauge AWG	Conductor			Core		Electrical Values	
Type	Cross Section		Construction n x Ø mm	Maxi. diameter mm	Tensile Strength daN	Overall diameter (max.) mm	Maxi. weight g/m	D.C. resistance at 20°C (max.) Ω / km	Current rating A
2103	0.21	24	19 x 0.12 N.P.C.A.	0.65	7	1.80	8.4	112.30	4
2103	0.38	22	12 x 0.20 N.P.C.	0.85	8	1.95	9.5	54.50	7
2103	0.60	20	19 x 0.20 N.P.C.	1.03	16	2.10	12.5	34.40	11
2103	0.93	18	19 x 0.25 N.P.C.	1.28	> 20	2.20	17.5	22.00	16
2103	1.34	16	19 x 0.30 N.P.C.	1.53	> 20	2.80	21.5	15.30	22
2103	1.91	14	27 x 0.30 N.P.C.	1.87	> 20	3.20	31.5	10.80	32
2103	3.18	12	45 x 0.30 N.P.C.	2.40	> 20	3.70	47.5	6.40	41
2103	5.15	10	73 x 0.30 N.P.C.	3.10	> 20	4.35	65	3.98	55
2103	8.98	8	127 x 0.30 N.P.C.	4.20	> 20	5.55	108	2.29	75
2103	13.40	6	27 x 7 x 0.30 N.P.C.	5.60	> 20	7.30	160	1.58	100
2103	21.80	4	37 x 12 x 0.25 N.P.C.	7.30	> 20	9.30	262	0.97	135
2103	34.50	2	37 x 19 x 0.25 N.P.C.	8.80	> 20	10.90	396	0.61	181
2103	41.80	1	37 x 23 x 0.25 N.P.C.	9.80	> 20	12.10	470	0.50	211
2103	52.70	0	37 x 29 x 0.25 N.P.C.	10.80	> 20	13.40	600	0.40	245
2103	67.20	00	37 x 37 x 0.25 N.P.C.	12.40	> 20	14.50	750	0.31	283
2103	84.80	000	48 x 36 x 0.25 N.P.C.	13.80	> 20	16.90	980	0.25	328
2103	107.80	0000	61 x 36 x 0.25 N.P.C.	15.80	> 20	18.70	1220	0.19	380

Nacelles and engines:
High temperature

The currents shown are valid for single wires in air. For current ratings in bundle see AIR 7822 specification.
N.P.C.A. = nickel plated annealed copper alloy - N.P.C. = nickel plated annealed electrolytic copper

■ Identification

Color coding:

According to AIR 0107 (10/1961).

Other color codings on request (stripes or printed identification).

TYPE 1050

Screened cables for high ambient temperatures

Applications

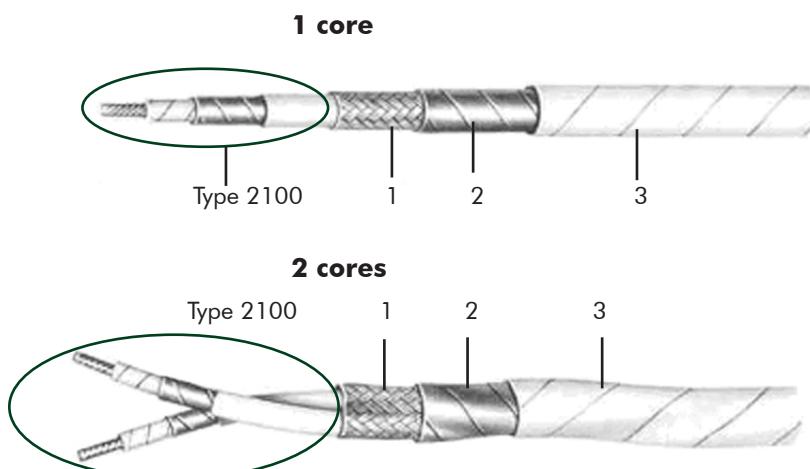
Designed for use at high ambient temperatures up to 280°C at peak. Non-flammable, they withstand most solvents.

Very good electrical insulation of the screen, very efficient protection of the screen against oxidation and corrosion, easy fitting of the cable, good mechanical protection of the screen, safer handling.

600 Volts RMS

Construction

1, 2 or 3 cores, type 2100 covered with
1- A braided screen made u of nickel plated copper
2- A polyimide sheath
3- A wrapped and sintered PTFE sheath

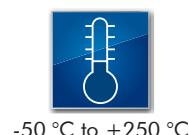


Technical requirements and control conditions

Cores: see datasheet on type 2100
 Screen: MIL-7078 A specification (08/1971)
 Coding : AIR 0107 A specification (10/1961) and note N°348/SIB distributed under N°5927/STT/SIB (05/1961).

Standards

AIR 4524, B.N.Aé, MIL-W-22759 D & B.M.S. 13-58



-50 °C to +250 °C



Flame retardant
FAR/JAR part 25 sec
25.869 (a)(4) Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHs

■ TYPE 1050

References			2100 Cores				Screen and Protection			
Type	Nb. cores	Cross section	Gauge AWG	Construction n x Ø mm	Overall diameter of the core mm	Colour of cores	Screen strands Ø mm	PTFE outer sheath Color	Overall diameter (max.) mm	Average weight g/m
1050	1	0.38	22	12 x 0.20 NPC	1.90	White	12/100	White	3.2	20.8
1050	1	0.60	20	19 x 0.20 NPC	2.20	Light blue	12/100	Blue	3.5	25.9
1050	1	0.93	18	19 x 0.25 NPC	2.40	White	12/100	White	3.8	30.8
1050	1	1.34	16	19 x 0.30 NPC	2.70	Light blue	12/100	Blue	4.1	36.3
1050	1	1.91	14	27 x 0.30 NPC	2.95	White	12/100	White	4.4	44.3
1050	2	0.38	22	12 x 0.20 NPC	1.90	White + blue	12/100	White	5.3	42.2
1050	2	0.60	20	19 x 0.20 NPC	2.20	Light blue + blue	12/100	Blue	5.9	51.0
1050	2	0.93	18	19 x 0.25 NPC	2.40	White + blue	12/100	White	6.3	63.2
1050	2	1.34	16	19 x 0.30 NPC	2.70	Light blue + blue	12/100	Blue	6.9	75.2
1050	2	1.91	14	27 x 0.30 NPC	2.95	White + blue	12/100	White	7.6	92.6
1050	3	0.38	22	12 x 0.20 NPC	1.90	White + blue + Yellow	12/100	White	5.6	53.0
1050	3	0.60	20	19 x 0.20 NPC	2.20	Light blue + blue + Yellow	12/100	Blue	6.2	66.1
1050	3	0.93	18	19 x 0.25 NPC	2.40	White + blue + Yellow	12/100	White	6.6	82.7
1050	3	1.34	16	19 x 0.30 NPC	2.70	Light blue + blue + Yellow	12/100	Blue	7.3	98.6
1050	3	1.91	14	27 x 0.30 NPC	2.95	White + blue + Yellow	12/100	White	8.1	122.3

N.P.C. = nickel plated copper

Nozzles and engines:
High temperature

TYPE 1053

Screened cables for high ambient temperatures

Applications

Designed for use at high ambient temperatures up to 300°C at peak.

Non-flammable, good abrasion resistance, they withstand most solvents.

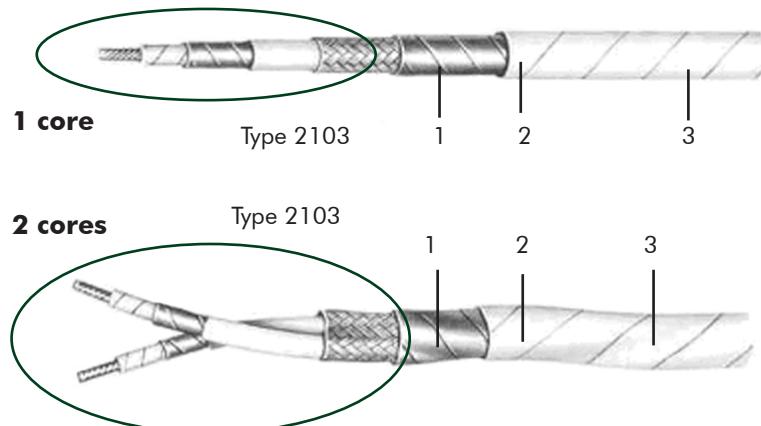
Very good electrical insulation of the screen, very efficient protection of the screen against oxidation and corrosion, easy fitting of the cable, safer handling.

600 Volts RMS

Construction

1, 2 or 3 cores type 2103 covered with:

- 1-** A braided screen made up of nickel plated copper (62% minimum coverage)
- 2-** A polyimide sheath
- 3-** A wrapped and sintered PTFE sheath



Technical requirements and control conditions

Cores: see datasheet on type 2103

Screen: MIL-C-7078 A specification (08/1971)

Coding: AIR 0107 A specification (10/1961) and note N°348/SIB distributed under N°5927/STT/SIB (05/1961)

Standards

AIR 4524, B.N.Aé, MIL-W-22759 B & MIL-C-7078C



-90°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (g)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHs

■ TYPE 1053

References			2103 Cores				Screen and Protection			
Type	Nb. cores	Cross Section	Gauge AWG	Construction n x Ø mm	Overall diameter of the core mm	Colour of cores	Screen strands Ø mm	PTFE outer sheath Color	Overall diameter (max.) mm	Average weight g/m
1053	1	0.38	22	12 x 0.20 NPC	1.80	White	10/100	White	2.9	16.5
1053	1	0.60	20	19 x 0.20 NPC	1.95	Light blue	10/100	Blue	3.0	19.3
1053	1	0.93	18	19 x 0.25 NPC	2.10	White	10/100	White	3.2	24.0
1053	1	1.34	16	19 x 0.30 NPC	2.20	Light blue	12/100	Blue	4.1	32.7
1053	1	1.91	14	27 x 0.30 NPC	2.80	White	12/100	White	4.4	41.3
1053	2	0.38	22	12 x 0.20 NPC	1.80	White + blue	12/100	White	4.9	38.0
1053	2	0.60	20	19 x 0.20 NPC	1.95	Light blue + blue	12/100	Blue	5.2	44.0
1053	2	0.93	18	19 x 0.25 NPC	2.10	White + blue	12/100	White	5.5	56.0
1053	2	1.34	16	19 x 0.30 NPC	2.20	Light blue + blue	12/100	Blue	7.1	70.0
1053	2	1.91	14	27 x 0.30 NPC	2.80	White + blue	12/100	White	7.8	91.0
1053	3	0.38	22	12 x 0.20 NPC	1.80	White + blue + Yellow	12/100	White	5.4	48.0
1053	3	0.60	20	19 x 0.20 NPC	1.95	Light blue + blue + Yellow	12/100	Blue	5.6	57.0
1053	3	0.93	18	19 x 0.25 NPC	2.10	White + blue + Yellow	12/100	White	5.8	73.0
1053	3	1.34	16	19 x 0.30 NPC	2.20	Light blue + blue + Yellow	12/100	Blue	7.5	95.0
1053	3	1.91	14	27 x 0.30 NPC	2.80	White + blue + Yellow	12/100	White	8.4	121.0

Nacelles and engines:
High temperature

This cable type accommodates connectors according to MIL-C-83723 specification
 N.P.C. = nickel plated annealed electrolytic copper

9310/N01/N02/N03

AWG 24 & AWG 22

260 °C

Wire Jacketed Shielded Cable

Applications

Aero Engine and High Temperature Application

600 Volts RMS

Construction

CONDUCTOR

- 1- AWG 24
19 x 0.127 mm
($S = 0.24 \text{ mm}^2$)
- AWG 22
19 x 0.16 mm
($S = 0.38 \text{ mm}^2$)
- Nickel coated high strength copper alloy

INSULATION

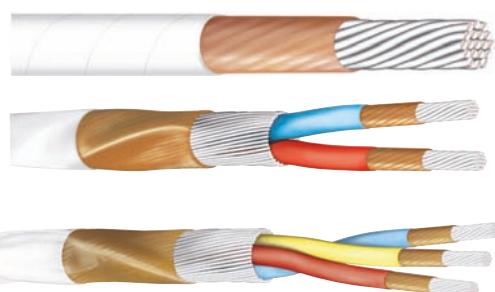
- Polyimide tape
- PTFE tapes

SHIELD

- 2- Nickel plated copper spiral screen

JACKET

- 3- Polyimide Tape
- 4- PTFE Tape



Other characteristics

Operating frequency : up to 2000 Hz

Standards

448-009-3-10



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids

9310-N01 - N02 - N03 - AWG 24 & AWG 22 (Metric units)

AWG	Number of cores	Screen Strand Diameter (mm)	Nominal DC resistance of screen at 20°C (Ohms/Km)	Maximum DC resistance of conductor at 20°C (Ohms/Km)	Finished Cable			
					Min. Diameter (mm)	Max. Diameter (mm)	Max. Weight (g.m)	Cores colour single wires
24	2	0,08	71	117	2.20	2.55	12.4	white
22	2	0,08	56	62	2.60	2.90	18.0	green
24	3	0,10	44	117	2.40	2.70	17.9	white
22	3	0,10	37	62	2.85	3.15	24.9	green

AWG	Conductor		Maximum DC resistance at 20°C (Ω/Km)	Finished Wire			
	Construction	Nom. Diameter (mm)		Min. Diameter (mm)	Max. Diameter (mm)	Max. Weight (g/m)	Wire colour
24	19 x 0.127	0.61	114	0.96	1.11	3.50	white
22	19 x 0.16	0.76	60	1.15	1.30	5.40	white

Nacelles and engines:
High temperature

Identification

Marking :

Colour : Green

9310-N££CA**## F0241 + + + +

££ = Number of Cores

** = AWG

(+ + + +) = Year of manufacturing

= BL (Spiral screen), () Single wire

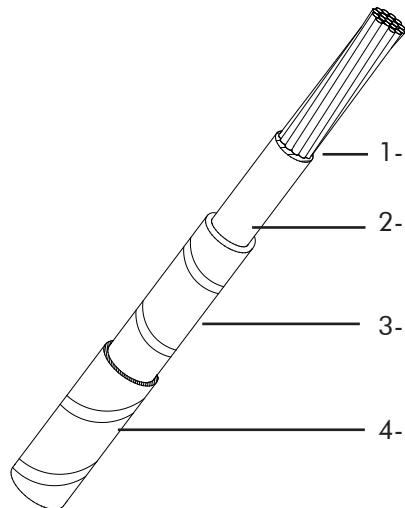
Part 3-2

Nacelles and engines high temperature, fire resistant/fire proof cables

ESW 1200-010-XXX**ESW 1201-010-XXX****Fire resistant cable single core**

Applications

Use in Aero-engine services

600 Volts RMS

Construction

CONDUCTOR

- 1- Stranded conductor made of nickel clad copper alloy (ESW1200)
- Nickel clad copper (ESW1201)

INSULATION

- 2- Fire resistant insulation
- 3- Polyimide tape
- 4- PTFE tape

Other characteristics

Very good fire resistance

Standards

ESW 1200-010 / 1201-010



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHs

■ ESW 1200-010- XXX (Metric units)

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable			
			DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
			Max.	Min.	Max.	Max.
ESW1200-010-004	004	22	95	1.45	1.85	8.4
ESW1200-010-006	006	20	51.1	1.60	2.00	10.5
ESW1200-010-010	010	18	32.7	1.90	2.32	14.4
ESW1200-010-012	012	16	25.6	2.10	2.57	18.7

■ ESW 1201-010-XXX (Metric units)

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable			
			DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
			Max.	Min.	Max.	Max.
ESW1201-010-004	004	22	87.9	1.45	1.85	8.4
ESW1201-010-006	006	20	43.6	1.60	2.00	10.5
ESW1201-010-010	010	18	27.9	1.90	2.32	14.4
ESW1201-010-012	012	16	21.9	2.10	2.57	18.7

■ Identification

Color of cable : white with a helical red stripe

Marking :

ESW1200-010-xxx-FX-FF-**

ESW1201-010-xxx-FX-FF-**

With :

xxx = Size code

** = Year of production (ie. 08 = 2008)

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

ESW 1202-+++-XXX

ESW 1203-+++-XXX

**Fire resistant cable
single and multi-cores screened and jacketed**

Applications

Use in Aero-engine services

600 Volts RMS

Construction

CORE

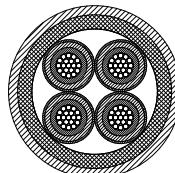
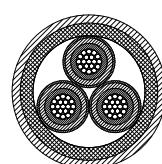
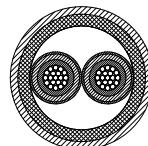
ESW 1200
 ESW 1201
 004 : 19 x 0.15 mm
 006 : 19 x 0.20 mm
 010 : 19 x 0.25 mm
 012 : 19 x 0.30 mm

SCREEN

Nickel plated copper braid

JACKET

PTFE tape(s)



Other characteristics

Very good fire resistance

Standards

ESW 1202 / 1203-+++-XXX



-65°C to +260°C



Flame retardant
 FAR/JAR part 25
 sec 25.869 (a)(4)
 Appendix F
 part 1 (3)



Very good
resistance to
aircraft fluids



RoHs

■ ESW 1202-+--XXX (Metric units)

REFERENCE	AWG	Size Code	Finished Cable					
			Nbr of cores	Colours of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		
					Max.	Min.	Max.	
ESW1202-012-004	22	004	1	White	95.0	2.40	3.25	22.5
ESW1202-012-006	20	006	1		51.1	2.65	3.35	28.3
ESW1202-012-010	18	010	1		32.7	2.90	3.60	34.0
ESW1202-012-012	16	012	1		25.6	3.15	3.90	40.5
ESW1202-022-004	22	004	2	1 Red 1 Blue	96.9	3.89	5.35	43.5
ESW1202-022-006	20	006	2		52.1	4.21	5.64	50.6
ESW1202-022-010	18	010	2		33.4	4.70	6.00	60.3
ESW1202-022-012	16	012	2		26.1	5.20	6.50	72.8
ESW1202-032-004	22	004	3	1 Red 1 Blue 1 Yellow	96.9	4.10	5.65	55.7
ESW1202-032-006	20	006	3		52.1	4.40	5.97	67.0
ESW1202-032-010	18	010	3		33.4	5.16	6.40	81.0
ESW1202-032-012	16	012	3		26.1	5.54	6.80	94.0
ESW1202-042-004	22	004	4	1 Red 1 Blue 1 Yellow 1 Green	96.9	4.55	5.95	66.5
ESW1202-042-006	20	006	4		52.1	4.92	6.30	76.3
ESW1202-042-010	18	010	4		33.4	5.69	7.00	98.9
ESW1202-042-012	16	012	4		26.1	6.29	7.50	115.0

Nacelles and engines:
high temperature,
fire resistant/cable

■ ESW 1203-+--XXX (Metric units)

REFERENCE	AWG	Size Code	Finished Cable					
			Nbr of cores	Colours of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		
					Max.	Min.	Max.	
ESW1203-012-004	22	004	1	White	87.9	2.40	3.25	22.5
ESW1203-012-006	20	006	1		43.6	2.65	3.35	28.3
ESW1203-012-010	18	010	1		27.9	2.90	3.60	34.0
ESW1203-012-012	16	012	1		21.9	3.15	3.90	40.5
ESW1203-022-004	22	004	2	1 Red 1 Blue	89.66	3.89	5.35	43.5
ESW1203-022-006	20	006	2		44.47	4.21	5.64	50.6
ESW1203-022-010	18	010	2		28.46	4.70	6.00	60.3
ESW1203-022-012	16	012	2		22.34	5.20	6.50	72.8
ESW1203-032-004	22	004	3	1 Red 1 Blue 1 Yellow	89.66	4.10	5.65	55.7
ESW1203-032-006	20	006	3		44.47	4.40	5.97	67.0
ESW1203-032-010	18	010	3		28.46	5.16	6.40	81.0
ESW1203-032-012	16	012	3		22.34	5.54	6.80	94.0
ESW1203-042-004	22	004	4	1 Red 1 Blue 1 Yellow 1 Green	89.66	4.55	5.95	66.5
ESW1203-042-006	20	006	4		44.47	4.92	6.30	76.3
ESW1203-042-010	18	010	4		28.46	5.69	7.00	98.9
ESW1203-042-012	16	012	4		22.34	6.29	7.50	115.0

■ Identification

Jacket identification :

White with narrow red stripe

Marking :

ESW1202-+--xxx-FX-FF-**

ESW1203-+--xxx-FX-FF-**

With :

++ = Form code

xxx = Size code

** = Year of production (ie. 08 = 2008)

ESW 1250-010-XXX

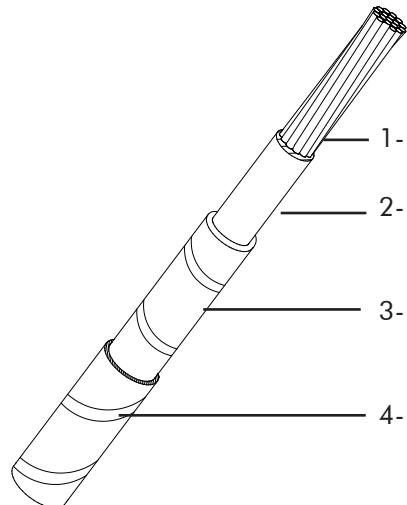
ESW 1251-010-XXX

Fireproof cable single core

Applications

Use in essential services

600 Volts RMS



Construction

CONDUCTOR

- 1- Stranded conductor made of nickel clad copper alloy (ESW1250)
- Nickel clad copper (ESW1251)

INSULATION

- 2- Fire resistant insulation
- 3- Polyimide tape
- 4- PTFE tape

Other characteristics

Very good fire resistance

Standards

ESW 1250-010 / 1251-010



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHs

■ ESW 1250-010-XXX (Metric units)

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable			
			DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
			Max.	Min.	Max.	Max.
ESW1250-010-004	004	22	95	1.45	1.85	10.4
ESW1250-010-006	006	20	51.1	1.60	2.00	13.0
ESW1250-010-010	010	18	32.7	1.90	2.32	17.0
ESW1250-010-012	012	16	25.6	2.10	2.57	22.0

■ ESW 1251-010-XXX (Metric units)

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable			
			DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
			Max.	Min.	Max.	Max.
ESW1251-010-004	004	22	87.9	1.45	1.85	10.4
ESW1251-010-006	006	20	43.6	1.60	2.00	13.0
ESW1251-010-010	010	18	27.9	1.90	2.32	17.0
ESW1251-010-012	012	16	21.9	2.10	2.57	22.0

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

■ Identification

Core identification :

White with a helical red stripe

Marking :

ESW1250-010-xxx-FX-FF-**

ESW1251-010-xxx-FX-FF-**

With :

xxx = Size code

** = Year of production (ie. 08 = 2008)

ESW 1252-+ + -XXX**ESW 1253-+ + -XXX****Fireproof cable****single and multi-cores screened and jacketed**

Applications

Use in essential services

600 Volts RMS

Construction

CORE

ESW 1250

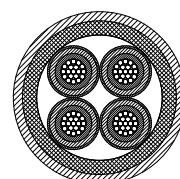
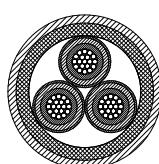
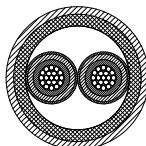
ESW 1251

SCREEN

Nickel plated copper braid

JACKET

PTFE tape(s)



Other characteristics

Very good fire resistance

Standards

ESW 1252 / 1253-+ + -XXX



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHs

■ ESW 1252-++-XXX (Metric units)

REFERENCE	AWG	Size Code	Finished Cable					
			Nbr of cores	Colours of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
					Max.	Min.	Max.	Max.
ESW1252-012-004	22	004	1	White	95.0	2.40	3.25	22.5
ESW1252-012-006	20	006	1		51.1	2.65	3.50	30.0
ESW1252-012-010	18	010	1		32.7	2.90	3.80	36.0
ESW1252-012-012	16	012	1		25.6	3.15	4.10	38.0
ESW1252-022-004	22	004	2	1 Red 1 Blue	96.9	3.89	5.35	40.0
ESW1252-022-006	20	006	2		52.1	4.21	5.64	48.0
ESW1252-022-010	18	010	2		33.4	4.70	6.00	59.0
ESW1252-022-012	16	012	2		26.1	5.20	6.50	72.8
ESW1252-032-004	22	004	3	1 Red 1 Blue 1 Yellow	96.9	4.10	5.65	52.0
ESW1252-032-006	20	006	3		52.1	4.40	5.97	62.0
ESW1252-032-010	18	010	3		33.4	5.16	6.40	81.0
ESW1252-032-012	16	012	3		26.1	5.54	6.80	94.0
ESW1252-042-004	22	004	4	1 Red 1 Blue 1 Yellow 1 Green	96.9	4.55	5.95	66.5
ESW1252-042-006	20	006	4		52.1	4.92	6.30	76.3
ESW1252-042-010	18	010	4		33.4	5.69	7.00	98.9
ESW1252-042-012	16	012	4		26.1	6.29	7.50	115.0

Nacelles and engines:
high temperature,
fire resistant/cable

■ ESW 1253-++-XXX (Metric units)

REFERENCE	AWG	Size Code	Finished Cable					
			Nbr of cores	Colours of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
					Max.	Min.	Max.	Max.
ESW1253-012-004	22	004	1	White	87.9	2.40	3.25	22.5
ESW1253-012-006	20	006	1		43.6	2.65	3.50	33.4
ESW1253-012-010	18	010	1		27.9	2.90	3.80	40.12
ESW1253-012-012	16	012	1		21.9	3.15	4.10	47.8
ESW1253-022-004	22	004	2	1 Red 1 Blue	89.66	3.89	5.35	43.5
ESW1253-022-006	20	006	2		44.47	4.21	5.64	50.6
ESW1253-022-010	18	010	2		28.46	4.70	6.00	60.3
ESW1253-022-012	16	012	2		22.34	5.20	6.50	72.8
ESW1253-032-004	22	004	3	1 Red 1 Blue 1 Yellow	89.66	4.10	5.65	55.7
ESW1253-032-006	20	006	3		44.47	4.40	5.97	67.0
ESW1253-032-010	18	010	3		28.46	5.16	6.40	81.0
ESW1253-032-012	16	012	3		22.34	5.54	6.80	94.0
ESW1253-042-004	22	004	4	1 Red 1 Blue 1 Yellow 1 Green	89.66	4.55	5.95	66.5
ESW1253-042-006	20	006	4		44.47	4.92	6.30	76.3
ESW1253-042-010	18	010	4		28.46	5.69	7.00	98.9
ESW1253-042-012	16	012	4		22.34	6.29	7.50	115.0

■ Identification

Core identification :

White with narrow red stripe

Marking :

ESW1252-++-xxx-FX-FF-**

ESW1253-++-xxx-FX-FF-**

With :

++ = Form code

xxx = Size code

** = Year of production (ie. 08 = 2008)

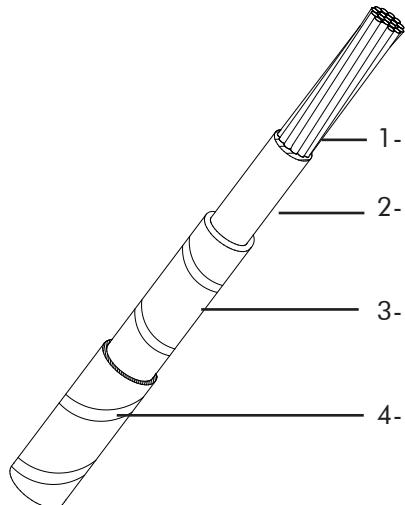
ESW 1254-010-002

Fireproof cable single core

Applications

Use in Aero engine services

600 Volts RMS



Construction

CONDUCTOR

- 1- Stranded conductor made of nickel clad copper alloy
002 : 19 x 0.12 mm

INSULATION

- 2- Fire resistant insulation
- 3- Polyimide tape
- 4- PTFE tape

Other characteristics

Very good fire resistance

Standards

ESW 1254-010-002



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHs

■ ESW 1254-010-002 (Metric units)

REFERENCE	Size Code	Gauge (AWG)	Finished Cable			
			DC Resistance at 20°C (Ohms/Km)		Diameter (mm)	
			Max.	Min.	Max.	Weight (g/m)
ESW1254-010-002	002	24	131	1.20	1.65	9.50

■ Identification

Core identification :

White with a helical red stripe

Marking :

ESW1254-010-002-FX-FF-**

With :

FX = Country of origin

FF = Manufacturer's code

** = Year of production (ie. 08 = 2008)

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

ESW 1254-022-002

ESW 1254-032-002

Fireproof cable

Two or three-cores twisted screened and jacketed

Applications

Use in Aero engine services

600 Volts RMS

Construction

CORE

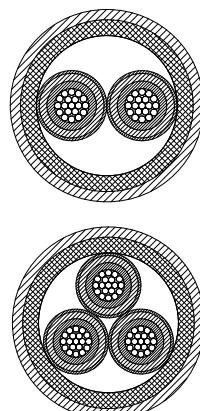
ESW 1254-010

SCREEN

Nickel plated copper braid

JACKET

PTFE tape(s)



Other characteristics

Very good fire resistance

Standards

ESW 1254-022-002

ESW 1254-032-002



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHs

■ ESW 1254-022-002 & ESW 1254-032-002 (Metric units)

REFERENCE	AWG	Size Code	Finished Cable						
			Nbr of cores	Colours of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Nom. Weight (g/m)	Max weight ESW Spec. (g/m)
						Max.	Min.		
ESW1254-022-002	24	002	2	1 Red 1 Blue	135	2.95	4.45	25	38
ESW1254-032-002	24	002	3	1 Red 1 Blue 1 Yellow	135	3.50	4.75	31	37

■ Identification

Core identification :

White with narrow red stripe

Marking :

ESW1254-022-002-FX-FF-**

With :

FX = Country of origin

FF = Manufacturer's code

** = Year of production (ie. 08 = 2008)

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

ESW 1600-010-XXX

Thermocouple nickel chromium

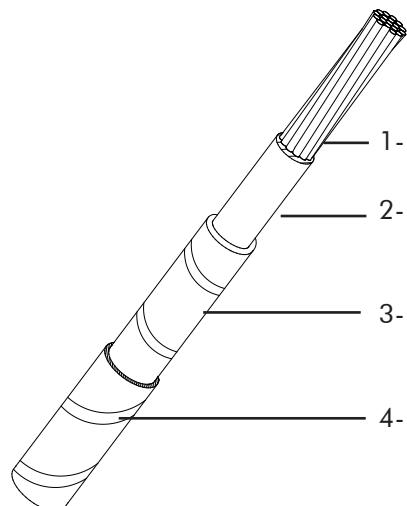
ESW 1601-010-XXX

Thermocouple nickel aluminium

Fire resistant cable

Applications

Use in Aero engine services

600 Volts RMS

Construction

CONDUCTOR

- 1- Stranded conductor made of nickel chromium (ESW 1600)
- nickel aluminium (ESW 1601)

INSULATION

- 2- Fire resistant insulation
- 3- Polyimide tape
- 4- PTFE tape

Other characteristics

Very good fire resistance

Standards

ESW 1600-010-XXX

ESW 1601-010-XXX



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

■ ESW 1600-010-XXX (Metric units)

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable				
			DC Resistance at 20°C (Ohms/Km)		Diameter (mm)		Weight (g/m)
			Min.	Max.	Min.	Max.	Max.
ESW1600-010-006	006	20	1100	1300	1.60	2.00	10.5
ESW1600-010-010	010	18	705	851	1.92	2.32	14.4
ESW1600-010-012	012	16	489	591	2.17	2.57	18.7
ESW1600-010-050	050	10	133	162	3.65	4.05	56.5

■ ESW 1601-010-XXX (Metric units)

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable				
			DC Resistance at 20°C (Ohms/Km)		Diameter (mm)		Weight (g/m)
			Min.	Max.	Min.	Max.	Max.
ESW1601-010-006	006	20	434	524	1.60	2.00	10.5
ESW1601-010-010	010	18	278	336	1.92	2.32	14.4
ESW1601-010-012	012	16	193	234	2.17	2.57	18.7
ESW1601-010-050	050	10	52	64	3.65	4.05	56.5

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

■ Identification

Core identification :

White (ESW 1600)

Green (ESW 1601)

Marking :

ESW1600-010-xxx-FX-FF-**

ESW1601-010-xxx-FX-FF-**

With :

xxx = Size code

** = Year of production (ie. 08 = 2008)

ESW 1602-022-XXX

Fire resistant cable
Thermocouple nickel chromium / nickel aluminum

Applications

Use in Aero engine services

600 Volts RMS

Construction

CORE

ESW 1600-010

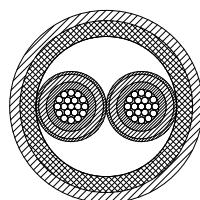
ESW 1601-010

SCREEN

Nickel plated copper braid

JACKET

PTFE tape(s)



Other characteristics

Very good fire resistance

Standards

ESW 1602-022-xxx



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHs

■ ESW 1602-022-XXX (Metric units)

REFERENCE	AWG	Size Code	Finished Cable						
			DC Resistance at 20°C (Ohms/Km)				Diameter (mm)		
			Nickel Chromium		Nickel Aluminium		Min.	Max.	
			Min.	Max.	Min.	Max.	Min.	Max.	
ESW1602-022-006	20	006	1122	1357	443	534	4.40	5.64	50.6
ESW1602-022-010	18	010	719	868	283	343	4.70	6.0	60.3
ESW1602-022-012	16	012	499	603	197	239	5.20	6.50	72.8
ESW1602-022-050	10	050	136	165	53	65	7.50	9.50	148.8

■ Identification

Core identification :

Nickel chromium : White

Nickel aluminium : Green

Marking :

ESW1602-022-xxx-FX-FF-**

With :

xxx = Size code

FX = Country of origin

FF = Manufacturer's code

** = Year of production (ie. 08 = 2008)

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

EN 2346-005 DW - DWB - DWC

Fireproof cables single and multicore assembly light weight

Applications

Use in the on-board electrical systems of aircraft.

600 Volts RMS

Construction

CONDUCTOR

Stranded conductor
Nickel clad copper alloy for size 24 and 22
Nickel clad copper for other sizes

INSULATION

Fireproof insulation
Polyimide tape
PTFE tape, UV laser markable (for single core)

DW



DWB



DWC



Other characteristics

Operating frequency : up to 2000 Hz
Fire resistance : >10 kΩ

Standards

EN 2346-005



-65°C to +260°C



Flame retardant FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)



Very good resistance to aircraft fluids



RoHs

EN 2346-005 DW - DWB - DWC (Metric units)

REFERENCE	No of core	Size Code (AECMA)	Gauge (AWG)	Finished Cable			
				DC Resistance at 20°C (Ohms/km)	Diameter (mm)		Weight (g/m)
				Max.	Min.	Max.	Max.
EN 2346-005A 002	1	002	24	131.0	1.53	1.68	5.00
EN 2346-005A 004	1	004	22	80.9	1.59	1.80	6.66
EN 2346-005A 006	1	006	20	44.3	1.89	2.11	10.61
EN 2346-005A 010	1	010	18	27.9	2.34	2.54	16.45
EN 2346-005A 012	1	012	16	18.8	2.50	2.70	20.35
EN 2346-005A 020	1	020	14	13.9	2.95	3.25	28.02
EN 2346-005A 030	1	030	12	8.9	3.48	3.80	42.31
EN 2346-005B 002	2	002	24	133.6	-	3.36	10.30
EN 2346-005B 004	2	004	22	82.5	-	3.60	13.72
EN 2346-005B 006	2	006	20	45.2	-	4.22	21.86
EN 2346-005B 010	2	010	18	28.5	-	5.08	33.89
EN 2346-005B 012	2	012	16	19.2	-	5.40	41.92
EN 2346-005B 020	2	020	14	14.2	-	6.50	57.72
EN 2346-005B 030	2	030	12	9.1	-	7.60	87.16
EN 2346-005C 002	3	002	24	133.6	-	3.61	15.45
EN 2346-005C 004	3	004	22	82.5	-	3.87	20.58
EN 2346-005C 006	3	006	20	45.2	-	4.54	32.79
EN 2346-005C 010	3	010	18	28.5	-	5.46	50.83
EN 2346-005C 012	3	012	16	19.2	-	5.81	62.88
EN 2346-005C 020	3	020	14	14.2	-	6.99	86.58
EN 2346-005C 030	3	030	12	9.1	-	8.17	130.74

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

Identification

Core identification :

Colors:

1 core : white with helical red stripe

2 cores : white with helical red / blue stripe

3 cores : white with helical red / blue / yellow stripe

Marking :

EN DW ++ FR F** for single core

EN DW A ++ FR F** for multicore

With :

DW = short designation

++ = AWG

FR = Country of origin (FR = France)

F = Manufacturer (F = Nexans)

** = Year of production (ie. 08 = 2008)

Applications

Use in the on-board electrical systems of aircraft.

600 Volts RMS

Construction

CONDUCTOR

Stranded conductor : Nickel clad copper alloy for size 22
Nickel clad copper for other sizes

INSULATION

Fireproof insulation
Polyimide tape
PTFE tape

SCREEN

Nickel plated copper braid

JACKET

UV PTFE tape(s)

GPA

GPB

GPC


Standards

EN 4608-004

Other characteristics

Operating frequency : up to 2000 Hz
Fire resistance : >10 kΩ



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

EN 4608-004 (Metric units)

REFERENCE	Size Code	AWG	Max. Transfer Impedance from 0 to 1 MHz (mΩ/m)	Finished Cable				
				Nbr of cores	Nom. Diameter of shield strands (mm)	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)	Weight (g/m)
Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
EN 4608-004A 002	002	24	60	1	0.10	131.0	2.61	14.15
EN 4608-004A 004	004	22		1	0.10	80.9	2.73	16.51
EN 4608-004A 006	006	20		1	0.10	44.3	3.01	21.54
EN 4608-004A 010	010	18		1	0.12	27.9	3.57	31.19
EN 4608-004A 012	012	16		1	0.12	18.8	3.72	36.94
EN 4608-004A 020	020	14		1	0.12	13.9	4.24	46.40
EN 4608-004A 030	030	12		1	0.12	8.9	4.79	62.87
EN 4608-004B 002	002	24	40	2	See EN 4608-005B			
EN 4608-004B 004	004	22		2	0.12	82.5	4.30	29.66
EN 4608-004B 006	006	20		2	0.12	45.2	4.90	40.51
EN 4608-004B 010	010	18		2	0.12	28.5	5.90	56.25
EN 4608-004B 012	012	16		2	0.12	19.2	6.20	65.71
EN 4608-004B 020	020	14		2	0.12	14.2	7.20	85.98
EN 4608-004B 030	030	12		2	0.12	9.1	8.30	118.48
EN 4608-004C 002	002	24	35	3	0.12	133.6	4.40	33.61
EN 4608-004C 004	004	22		3	0.12	82.5	4.50	39.15
EN 4608-004C 006	006	20		3	0.12	45.2	5.20	54.46
EN 4608-004C 010	010	18		3	0.12	28.5	6.20	77.01
EN 4608-004C 012	012	16		3	0.12	19.2	6.60	90.47
EN 4608-004C 020	020	14		3	0.15	14.2	7.80	125.75
EN 4608-004C 030	030	12		3	0.15	9.1	9.00	174.02

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

Identification

Core identification :

Colors:

- 1 core : white with helical red stripe
- 2 cores : white with helical red / blue stripe
- 3 cores : white with helical red / blue / yellow stripe

Marking:

EN DW A ++ FR F **

Jacket identification :

Color : white with narrow red stripe

Marking:

EN £££ ++ FR F**

With :

£££ = short designation (GPA, GPB, GPC)

++ = AWG

FR = Country of origin (FR = France)

F = Manufacturer (F = Nexans)

** = Year of production (ie. 08 = 2008)

TYPE ASNE 0437

High temperature fire resistant cables

Applications

Heavy duty applications in aero-engines and high temperature areas with good mechanical and electrical performances.

600 Volts RMS

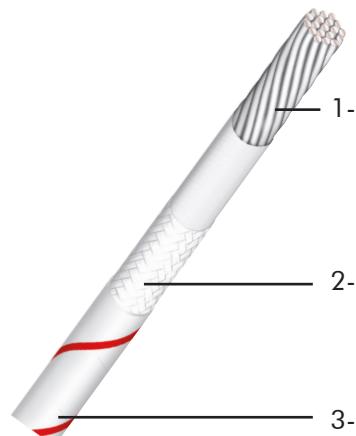
Construction

CONDUCTOR

- 1- Stranded conductor:
Nickel clad high strength copper alloy for size 22
Nickel clad copper for other sizes

INSULATION

- 2- Special fire resistant composite insulation
- 3- PTFE tape(s)



Other characteristics

Operating frequency : up to 2000 Hz

Standards

ASNE 0437 DL
MIL-W-25038



-55°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

■ TYPE ASNE 0437 (Metric units)

PART NUMBERS	US AWG	Conductor			Maximum DC resistance at 20°C (Ohms/Km)	Finished Wire				
		Stranding (Nbr x Diam. of strands) mm	Diameter (mm)			Diameter (mm)		Weight (g/m)		
			Nom.	Maxi.		Min.	Max.	Nom.	Max.	
ASNE 0437 DL 22	22	19 x 0.160	0.78	0.84	84.0	1.93	2.11	8.33	9.7	
ASNE 0437 DL 20	20	19 x 0.204	0.98	1.04	47.8	2.13	2.36	11.38	13.4	
ASNE 0437 DL 18	18	19 x 0.254	1.22	1.32	30.0	2.38	2.61	15.08	17.1	
ASNE 0437 DL 16	16	19 x 0.287	1.40	1.55	22.5	2.51	2.97	18.22	21.6	

■ Identification

Color : white with red stripe

Marking : green color

DL ++ FR F**

With :

++ = AWG

FR = Country of origin (FR = France)

F = Manufacturer (F = Nexans)

** = Year of production (ie. 08 = 2008)

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

TYPE TMF (M25038/1)

High temperature and fire resistant wires

Applications

Heavy duty applications in aero-engines and high temperature areas with good mechanical and electrical performances.

Intended for use in essential services.

600 Volts RMS

Construction

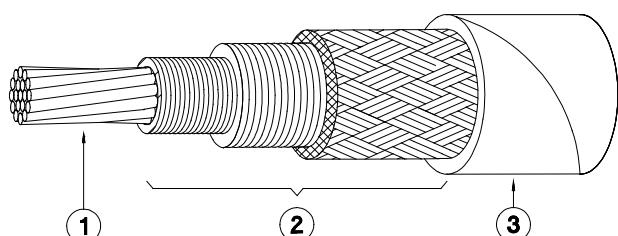
CONDUCTOR

1- Nickel clad copper conductor

INSULATION

2- Special fire resistant composite insulation

3- PTFE tape(s)



Other characteristics

Operating frequency : up to 2000 Hz

Very good fire resistance: pass BMS

13-55 and M25038 fire test (aged

and unaged)

Standards

MIL-W-25038/1 and BMS 13-55
for fire tests

Military QPL approval



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

■ TYPE TMF (Inch, pound)

PART NUMBER	US AWG	Conductor			Finished Wire			
		Stranding (Nbr of strands x AWG gauge of strands)	Diameter (inch)		Resistance at 20°C (68°F) (Ohms/1000 ft) Max.	Diameter (inch)	Weight (lb/1000ft) Max.	
			Nom.	Max.		Min.		
TMF-1-22	22	19 x 34	0.031	0.033	23.7	0.100	0.116	10.0
TMF-1-20	20	19 x 32	0.039	0.041	14.6	0.109	0.125	12.0
TMF-1-18	18	19 x 30	0.048	0.052	9.14	0.119	0.135	15.0
TMF-1-16	16	19 x 29	0.055	0.061	6.85	0.127	0.147	19.0
TMF-1-14	14	19 x 27	0.069	0.074	4.32	0.150	0.170	25.0
TMF-1-12	12	19 x 25	0.087	0.093	2.78	0.165	0.185	35.0
TMF-1-10	10	49 x 27	0.122	0.128	1.68	0.210	0.230	55.0
TMF-1-8	8	133 x 29	0.159	0.176	0.936	0.256	0.280	85.0
TMF-1-6	6	133 x 27	0.200	0.218	0.591	0.318	0.342	127
TMF-1-4	4	133 x 25	0.253	0.272	0.375	0.383	0.407	192
TMF-1-2	2	665 x 30	0.315	0.345	0.241	0.460	0.484	291
TMF-1-1	1	817 x 30	0.350	0.384	0.196	0.497	0.533	347
TMF-1-01	0	1045 x 30	0.395	0.432	0.153	0.537	0.573	415
TMF-1-02	00	1330 x 30	0.446	0.490	0.120	0.595	0.635	520
TMF-1-03	000	1672 x 30	0.505	0.548	0.096	0.660	0.700	648
TMF-1-04	0000	2109 x 30	0.562	0.615	0.077	0.730	0.770	793

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

■ TYPE TMF (Metric units)

PART NUMBER	US AWG	Conductor			Finished Wire			
		Stranding (Nbr of Strands x Diam. of Strands in mm)	Diameter (mm)		Resistance at 20°C (68°F) (Ohms/Km) Max.	Diameter (mm)	Weight (Kg/Km) Max.	
			Nom.	Max.		Nom.		
TMF-1-22	22	19 x 0.160	0.78	0.84	77.8	2.54	2.94	14.9
TMF-1-20	20	19 x 0.203	0.98	1.04	47.9	2.77	3.17	17.9
TMF-1-18	18	19 x 0.254	1.22	1.32	30.0	3.03	3.43	22.3
TMF-1-16	16	19 x 0.287	1.40	1.55	22.5	3.23	3.73	28.3
TMF-1-14	14	19 x 0.361	1.76	1.88	14.8	3.81	4.31	37.2
TMF-1-12	12	19 x 0.455	2.20	2.36	9.12	4.20	4.70	52.1
TMF-1-10	10	7 x 7 x 0.360	3.09	3.25	5.51	5.30	5.84	81.8
TMF-1-8	8	19 x 7 x 0.287	4.05	4.47	3.07	6.50	7.12	127
TMF-1-6	6	19 x 7 x 0.361	5.09	5.54	1.94	8.10	8.69	189
TMF-1-4	4	19 x 7 x 0.455	6.42	6.91	1.23	9.70	10.4	286
TMF-1-2	2	19 x 35 x 0.254	8.01	8.76	0.790	11.7	12.3	433
TMF-1-1	1	19 x 43 x 0.254	8.88	9.75	0.643	12.6	13.6	516
TMF-1-01	0	19 x 55 x 0.254	10.04	10.97	0.502	13.6	14.6	618
TMF-1-02	00	19 x 70 x 0.254	11.33	12.45	0.394	15.1	16.1	774
TMF-1-03	000	37 x 46 x 0.254	12.82	13.92	0.315	16.8	17.8	964
TMF-1-04	0000	37 x 57 x 0.254	14.27	15.62	0.253	18.5	19.6	1180

TYPE TMF-VRA-US TMF-VR-US (M25038/3) High temperature fire resistant cables

Applications

Heavy duty applications in aero-engines and high temperature areas with good mechanical and electrical performances.

Intended for use in essential services.

600 Volts RMS

Construction

CONDUCTOR

1- **TMF-VRA-US** (AWG 22H and 20)

nickel clad high strength copper alloy conductor

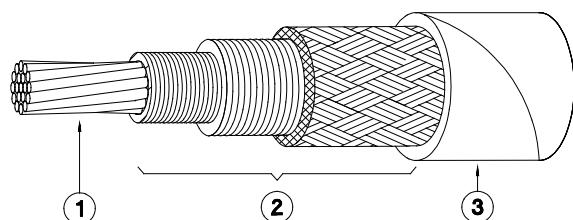
TMF-VR-US (other AWG)

Nickel clad copper conductor

INSULATION

2- Special fire resistant composite insulation

3- PTFE tape(s)



Other characteristics

Operating frequency : up to 2000 Hz

Very good resistance fire resistance:
according to MIL-W-25038

Standards

MIL-W-25038/3

Military QPL approval



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

■ TYPE TMF-VRA-US & TMF-VR-US (Inch, pound)

PART NUMBER	US AWG	Conductor			Finished Wire		
		Stranding (Nbr of Strands x AWG of Strands)	O.D. (inch)		Resistance at 20°C (68°F)(Ohms/1000 ft)	Diameter (inch)	
			Nom.	Max.	Max.	Min.	Max.
TMF-VRA-US-22H	22	19 x 34	0.031	0.033	23.70	0.055	0.075
TMF-VRA-US-20	20	19 x 32	0.039	0.041	15.27	0.048	0.083
TMF-VR-US-18	18	19 x 30	0.048	0.052	8.50	0.065	0.097
TMF-VR-US-16	16	19 x 29	0.055	0.061	6.66	0.068	0.103
TMF-VR-US-14	14	19 x 27	0.069	0.074	4.32	0.097	0.123
TMF-VR-US-12	12	19 x 25	0.088	0.093	2.78	0.100	0.142
							28.0

■ TYPE TMF-VRA-US & TMF-VR-US (Metric units)

PART NUMBER	US AWG	Conductor			Finished Wire		
		Stranding (Nbr of Strands x Diam. of Strands in mm)	O.D. (mm)		Resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)	
			Nom.	Max.	Max.	Min.	Max.
TMF-VRA-US-22H	22	19 x 0.160	0.78	0.84	77.8	1.40	1.91
TMF-VRA-US-20	20	19 x 0.203	0.99	1.04	50.1	1.22	2.11
TMF-VR-US-18	18	19 x 0.254	1.22	1.32	30.0	1.65	2.46
TMF-VR-US-16	16	19 x 0.287	1.40	1.55	22.5	1.73	2.62
TMF-VR-US-14	14	19 x 0.361	1.76	1.88	14.2	2.46	3.12
TMF-VR-US-12	12	19 x 0.455	2.23	2.36	9.12	2.54	3.61
							41.70

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

TYPE FRM-A-US FRM-US (M25038/3)

High temperature fire resistant cables

Applications

Heavy duty applications in aero-engines and high temperature areas with good mechanical and electrical performances.
Intended for use in essential services.

600 Volts RMS

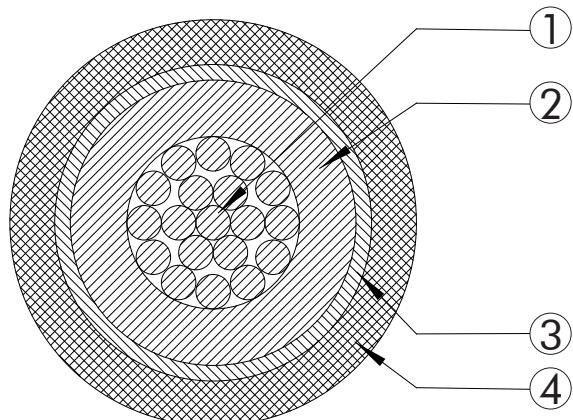
Construction

CONDUCTOR

- 1- **FRM-A-US** (AWG 22, 22H and 20)
nickel clad high strength copper alloy conductor
- FRM-US** (other AWG)
Nickel clad copper conductor

INSULATION

- 2- Inorganic barrier
- 3- Polyimide tape
- 4- PTFE tape



Other characteristics

Operating frequency : up to 2000 Hz

Standards

MIL-W-25038/3



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



■ TYPE FRM-A-US & FRM-US (Inch, pound)

US AWG	Conductors			Finished Wire				Weight (lb/1000ft)	
	Strands (No / AWG)	O.D. (inch)		Maximum DC resistance at 20°C (68°F) (Ohms/1000 ft)	Diameter (inch)				
		Nom.	Max.		Min.	Nom.	Max.		
22	19/34	0.031	0.033	23.70	0.040	0.053	0.054	3.37	
22H	19/34	0.031	0.033	23.70	0.055	0.060	0.075	3.84	
20	19/32	0.039	0.041	15.27	0.048	0.067	0.083	5.38	
18	19/30	0.049	0.052	8.50	0.065	0.077	0.097	7.72	
16	19/29	0.055	0.061	6.66	0.068	0.084	0.103	9.75	
14	19/27	0.069	0.074	4.32	0.097	0.101	0.123	14.95	
12	19/25	0.087	0.093	2.78	0.100	0.118	0.142	22.20	

■ TYPE FRM-A-US & FRM-US (Metric units)

US AWG	Conductors			Finished Wire				Weight (Kg/Km)	
	Strands (No / AWG)	O.D. (mm)		Maximum DC resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)				
		Nom.	Max.		Min.	Nom.	Max.		
22	19/34	0.78	0.84	77.8	1.02	1.34	1.37	5.01	
22H	19/34	0.78	0.84	77.8	1.40	1.52	1.91	5.72	
20	19/32	0.99	1.04	50.1	1.22	1.71	2.11	8.00	
18	19/30	1.24	1.32	27.9	1.65	1.95	2.46	11.49	
16	19/29	1.40	1.55	21.8	1.73	2.13	2.62	14.51	
14	19/27	1.76	1.88	14.2	2.46	2.56	3.12	22.24	
12	19/25	2.20	2.36	9.12	2.54	3.00	3.61	33.03	

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

FILOTEX® TYPE TMF-VRA-US-SJ / TMF-VR-US-SJ M27500A**JF*N06

Applications

Fire resistant cable.

High temperature fire resistant shielded and jacketed cables

600 Volts RMS

Construction

CONDUCTOR

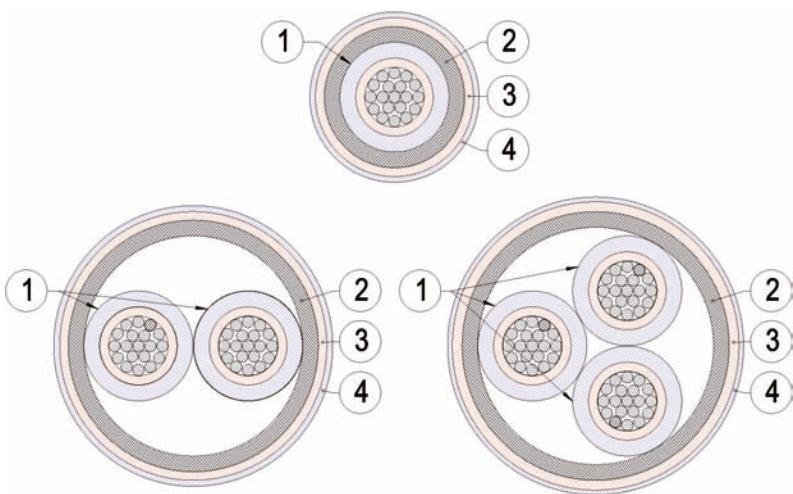
- 1- Filotex® Type TMF VRA-US Nickel Clad High Strength Copper Alloy Conductor for AWG 26 to 20
- Filotex® Type TMF VR-US Nickel Clad Copper Conductor for other AWG

SCREEN

- 2- Nickel coated copper braided screen

JACKET

- 3,4- PTFE tapes



Other characteristics

Operating frequency : up to 2000 Hz

Standards

MIL-W-25038/3
MIL-DTL-27500

** AWG

* Number of cores



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

Type TMF-VRA-US-SJ / TMF-VR-US-SJ (Inch, pound)

PART NUMBERS	PART NUMBERS	US AWG	Number of cores	Screen		Finished Cable				
				Strands AWG size	O.D. (inch) Nom.	Resistance at 20°C (68°F) of cores (Ohms/1000 ft)	Diameter (inch)		Weight (lb/1000ft)	
							Max.	Nom.	Max.	Nom.
TMF VRA-US 1 SJ 22	M27500A 22 JF 1 N06	22	1	38	0.069	23.70	0.094	0.099	9.55	10.03
TMF VRA-US 1 SJ 20	M27500A 20 JF 1 N06	20	1	36	0.097	15.27	0.122	0.127	15.95	16.59
TMF VR-US 1 SJ 18	M27500A 18 JF 1 N06	18	1	36	0.106	8.50	0.131	0.136	19.17	19.94
TMF VR-US 1 SJ 16	M27500A 16 JF 1 N06	16	1	36	0.113	6.66	0.138	0.144	21.97	22.84
TMF VRA-US 2 SJ 22	M27500A 22 JF 2 N06	22	2	36	0.128	24.20	0.153	0.160	17.70	18.58
TMF VRA-US 2 SJ 20	M27500A 20 JF 2 N06	20	2	36	0.174	15.60	0.199	0.207	27.46	28.56
TMF VR-US 2 SJ 18	M27500A 18 JF 2 N06	18	2	36	0.191	8.70	0.217	0.225	33.68	35.02
TMF VR-US 2 SJ 16	M27500A 16 JF 2 N06	16	2	36	0.206	6.80	0.231	0.240	39.10	40.66
TMF VRA-US 3 SJ 22	M27500A 22 JF 3 N06	22	3	36	0.136	24.20	0.161	0.169	22.94	24.09
TMF VRA-US 3 SJ 20	M27500A 20 JF 3 N06	20	3	36	0.186	15.60	0.211	0.219	36.46	37.91
TMF VR-US 3 SJ 18	M27500A 18 JF 3 N06	18	3	36	0.205	8.70	0.230	0.239	45.36	47.17
TMF VR-US 3 SJ 16	M27500A 16 JF 3 N06	16	3	36	0.220	6.80	0.245	0.255	53.15	55.27

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

Type TMF-VRA-US-SJ / TMF-VR-US-SJ (Metric units)

PART NUMBERS	MIL SPEC PART NUMBER	US AWG	Number of cores	Screen		Finished Cable				
				Strands (mm)	O.D. (mm) Nom.	Resistance at 20°C (68°F) of cores (Ohms/Km)	Diameter (mm)		Weight (Kg/Km)	
							Max.	Nom.	Max.	Nom.
TMF VRA-US 1 SJ 22	M27500A 22 JF 1 N06	22	1	0.10	1.76	77.78	2.40	2.52	14.21	14.92
TMF VRA-US 1 SJ 20	M27500A 20 JF 1 N06	20	1	0.13	2.47	50.1	3.11	3.23	23.74	24.69
TMF VR-US 1 SJ 18	M27500A 18 JF 1 N06	18	1	0.13	2.69	28	3.33	3.46	28.53	29.67
TMF VR-US 1 SJ 16	M27500A 16 JF 1 N06	16	1	0.13	2.87	21.9	3.51	3.65	32.69	33.99
TMF VRA-US 2 SJ 22	M27500A 22 JF 2 N06	22	2	0.13	3.24	79.4	3.88	4.07	26.34	27.65
TMF VRA-US 2 SJ 20	M27500A 20 JF 2 N06	20	2	0.13	4.42	51.1	5.06	5.26	40.86	42.5
TMF VR-US 2 SJ 18	M27500A 18 JF 2 N06	18	2	0.13	4.86	28.6	5.50	5.72	50.12	52.12
TMF VR-US 2 SJ 16	M27500A 16 JF 2 N06	16	2	0.13	5.22	22.3	5.86	6.09	58.18	60.51
TMF VRA-US 3 SJ 22	M27500A 22 JF 3 N06	22	3	0.13	3.45	79.4	4.09	4.29	34.14	35.85
TMF VRA-US 3 SJ 20	M27500A 20 JF 3 N06	20	3	0.13	4.72	51.1	5.36	5.57	54.25	56.42
TMF VR-US 3 SJ 18	M27500A 18 JF 3 N06	18	3	0.13	5.20	28.6	5.83	6.07	67.50	70.20
TMF VR-US 3 SJ 16	M27500A 16 JF 3 N06	16	3	0.13	5.58	22.3	6.22	6.47	79.09	82.25

BMS 13-55 TYPE 2 CLASS 1

High temperature fire resistant wires

Applications

Heavy duty applications in aero-engines and high temperature areas with good mechanical and electrical performances.

600 Volts RMS

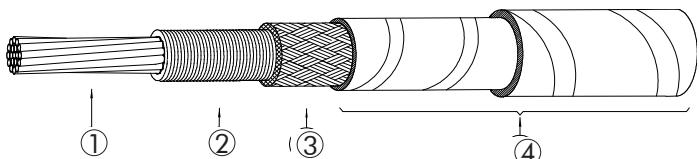
Construction

CONDUCTOR

- 1- Nickel clad high strength copper alloy strands

INSULATION

- 2- Impregnated inorganic fiber
- 3- TFE coated glass braid
- 4- PTFE tapes (fused)



Other characteristics

Operating frequency : up to 2000 Hz

Standards

BMS 13-55 fire test (aged and unaged)



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids

BMS 13-55 TYPE 2 CLASS 1 (Inch, pound)

PART NUMBER	US AWG	Conductor			Nominal area (circular mils)	Finished Wire					
		Stranding (Nbr of strands / gauge of strands)	Diameter (inch)			Resistance at 20°C (68°F) Ohms/1000 ft	Diameter (inch)		Weight (lb/1000ft)		
			Nom.	Max.			Max.	Min.	Max.	Min.	
BMS 13-55 T02 C01 G022	22	19 / 34	0.031	0.033	754	24.63	0.082	0.090	6.03	6.76	
BMS 13-55 T02 C01 G020	20	19 / 32	0.039	0.041	1214	15.27	0.088	0.097	7.61	8.55	
BMS 13-55 T02 C01 G018	18	19 / 30	0.049	0.052	1900	9.77	0.096	0.105	10.00	11.21	
BMS 13-55 T02 C01 G016	16	19 / 29	0.055	0.061	2426	7.66	0.103	0.112	12.07	13.67	
BMS 13-55 T02 C01 G014	14	19 / 27	0.070	0.074	3838	4.97	0.117	0.128	17.33	19.46	
BMS 13-55 T02 C01 G012	12	19 / 25	0.088	0.093	6097	3.20	0.149	0.164	27.65	30.56	
BMS 13-55 T02 C01 G010	10	7 x 7 / 25	0.122	0.128	9898	1.93	0.183	0.200	42.74	47.24	

BMS 13-55 TYPE 2 CLASS 1 (Metric units)

PART NUMBER	US AWG	Conductor			Nominal Aera (mm ²)	Finished Wire					
		Stranding (Nbr of Strand x Diam. of strands) mm	Diameter (mm)			Resistance at 20°C (68°F) (Ohms/Km.)	Diameter (mm)		Weight (Kg/Km)		
			Nom.	Max.			Max.	Min..	Max.	Min..	
BMS 13-55 T02 C01 G022	22	19 x 0.16	0.79	0.84	0.38	80.81	2.08	2.29	8.97	10.6	
BMS 13-55 T02 C01 G020	20	19 x 0.20	0.99	1.04	0.62	50.10	2.24	2.46	11.32	12.72	
BMS 13-55 T02 C01 G018	18	19 x 0.25	1.24	1.32	0.96	32.05	2.44	2.67	14.88	16.68	
BMS 13-55 T02 C01 G016	16	19 x 0.287	1.40	1.55	1.23	25.13	2.62	2.84	17.96	20.34	
BMS 13-55 T02 C01 G014	14	19 x 0.36	1.78	1.88	1.94	16.31	2.97	3.25	25.79	28.96	
BMS 13-55 T02 C01 G012	12	19 x 0.45	2.24	2.36	3.09	10.50	3.78	4.17	41.14	45.47	
BMS 13-55 T02 C01 G010	10	7 x 7 x 0.36	3.10	3.25	5.02	6.33	4.65	5.08	63.60	70.29	

Identification

Color : white with red stripe

Marking :

*W55/2/1- ** F0241

With :

* = Specification revision letter

** = AWG

TYPE 3000 A

Fire resistant cable

Applications

Used at high ambient temperatures, up to 300°C at peak. They withstand a 1090°C flame applied for 5 minutes. Non-flammable, they withstand most solvents.

600 Volts RMS

Construction

CONDUCTOR

- 1- Stranded nickel clad copper
Feltlike winding of siliceous fibers

INSULATION

- 2- PTFE (wrapped)

BRAID

- 3- Glass fiber braid coated with a
- 4- PTFE varnish



Other characteristics

Very good fire resistance

Technical requirements and control conditions

AIR 4527 specification (high temperature cables and fire resistant cables),
B.N.Aé NFL 52-127 specification (07/1978)
- RC Aero 140-55 A (03/1962).

Interchangeability

MIL-W-25038

Standards

AIR 4527, B.N.Aé

Approved by the Air Ministry under letters n°31573 STA/EQ/E2 (10-02-65)

Registered at the B.N.Aé n°6418
400 C



-50°C to +280°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHs

■ TYPE 3000 A (Metric units)

References		Gauge	Conductor			Core		Electrical Values	
			Construction	Nominal diameter	Tensile strength	Overall diameter + 0.1	Average weight	D.C. resistance at 20°C (maxi.)	Current rating
Type	Cross section	AWG	n x Ø mm	mm	daN	mm	g/m	Ω / km	A
3000A	0.38	22	12 x 0.20	0.85	10.5	2.5	9.5	71.20	7
3000A	0.60	20	19 x 0.20	1.03	16.5	2.8	12.5	45.00	11
3000A	0.93	18	19 x 0.25	1.28	24.0	3.1	17.5	28.80	16
3000A	1.34	16	19 x 0.30	1.53	> 30.0	3.5	21.5	20.00	22
3000A	1.91	14	27 x 0.30	1.87	> 30.0	4.0	31.5	14.40	32
3000A	3.18	12	45 x 0.30	2.40	> 30.0	4.5	47.5	8.45	41
3000A	5.15	10	73 x 0.30	3.10	> 30.0	5.3	71.0	5.20	55
3000A	8.98	8	127 x 0.30	4.20	> 30.0	6.7	114.0	3.00	75
3000A	13.40	6	27 x 7 x 0.30	5.60	> 30.0	8.1	172.0	2.07	100
3000A	21.80	4	37 x 12 x 0.25	7.30	> 30.0	9.6	262.0	1.27	135
3000A	34.50	2	37 x 19 x 0.25	8.80	> 30.0	11.5	414.0	0.80	181
3000A	41.80	1	37 x 23 x 0.25	9.80	> 30.0	12.8	480.0	0.66	211
3000A	52.70	0	37 x 29 x 0.25	10.80	> 30.0	14.2	618.0	0.52	245
3000A	67.20	00	37 x 37 x 0.25	12.40	> 30.0	15.7	781.0	0.41	283

The currents shown are valid for single wires in air. If the ambient temperature is lower than 250°C the current ratings can be above those quoted in Air 7822 Specification, provided that the conductor temperature does not exceed 300°C. For cables in bundle please refer to Air 7822 Specification.

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

■ Identification

Color coding :

Natural color + red stripe

BMS 13-67

310°C rating very high temperatures fire resistant shielded and jacketed cables

Applications

Aero engines and very high temperature applications, fire resistant cable.

600 Volts RMS

Construction

CONDUCTOR

1- Nickel clad high strength copper alloy conductor

INSULATION

Very high temperature and fire resistant insulation

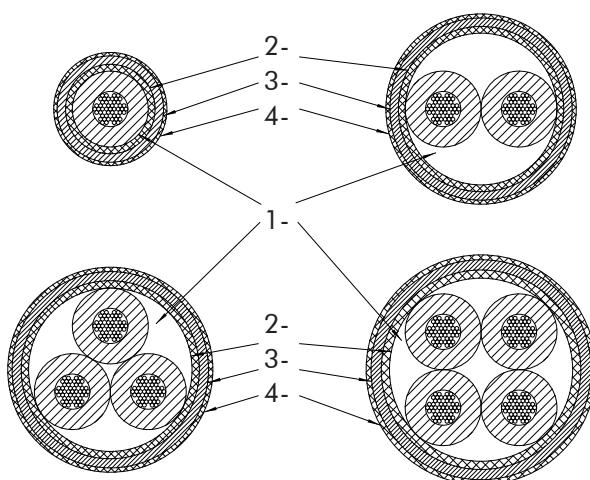
High temperature PTFE tapes
PTFE coated fiber glass braid

SHIELD

2- Nickel clad copper braid

JACKET

3- High temperature PTFE tapes
4- PTFE coated fiber glass braid



Other characteristics

Operating frequency : up to 2000 Hz

Fire resistance : insulation resistance 10 000 Ohms minimum

Bend radius : minimum 5 times cable O.D.

Standards

BMS 13-67 QPL



-65°C to +321°C (for 10 000 hours)
-65°C to +313°C (for 20 000 hours)



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Arc tracking
resistant



Very good
resistance to
aircraft fluids



RoHs

BMS 13-67 (Metric units)

CORE (only for use as BMS13-67T02 Core)

CORE	US AWG	Conductors			Finished Wire					
		Strands (Nbr x mm)		O.D. (mm)		Maximum DC Resistance (Ohms/Km)		Diameter (mm)		Weight (g/m)
		Nom.	Max .	at 23°C (73°F)	at 370°C (698°F)	Nom.	Max.	Nom.	Max.	Nom.
BMS13-67T0*C01G018	18	7 x 7 x 0.150	1.30	1.32	32.0	74.28	2.91	3.03	16.70	
BMS13-67T0*C01G016	16	7 x 7 x 0.175	1.51	1.55	25.1	55.77	3.10	3.22	20.11	

FINISHED CABLE

PART NUMBER	US AWG	Nbr of cores	Shield		Finished Cable							
			Strands O.D. (mm)	O.D. (mm)	Resistance at 23°C (73°F) of Cores (Ohms/Km)		Diameter (mm)			Weight (g/m)		
					Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.
BMS13-67T02C01G018	18	1	0.13	3.43	32.0	4.04	4.18	4.34	35.77	38.06	40.34	
BMS13-67T02C01G016	16	1	0.13	3.62	25.1	4.19	4.36	4.55	39.51	42.02	44.55	

STUDY 124585

Very high temperatures fire resistant wires

Applications

Heavy duty applications in Aero-engines and very high temperature areas.

600 Volts RMS

Construction

CONDUCTOR

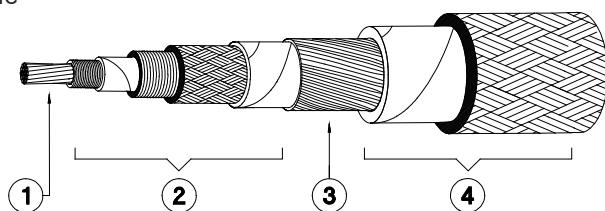
- 1- 19 strands of nickel clad copper conductor (\varnothing of the strands 0.287 mm)
- 2- Special fire resistant composite insulation, very high temperature

SCREEN

- 3- Nickel clad copper helicoidal screen (\varnothing of the strands 0.13 mm)

JACKET

- 4- Very high temperature resistant composite



Other characteristics

Operating frequency : up to 2000 Hz

Standards

BMS 13-55 for fluids and fire resistance
ST 448 006 3 01 A



-65°C to +300°C
(for 20 000 hours)



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHs

■ STUDY 124585 (Metric units)

Reference	US AWG	Construction (N x mm)	Conductor				Insulation		Screen		Finished cable		
			Diameter (mm)		DC resistance (Ohms/Km)		Diameter (mm)		Strands	Nom.	Ext. Diameter (mm)		Weight (Kg/Km)
			Nom.	Max.	Max.at 20°C	Nom. 370°C	Nom.	Max.			(mm)	(mm)	
Et.124585	16	19 x 0.287	1.40	1.55	22.5	55.8	2.90	3.40	0.13	3.45	4.15	4.45	42

■ Operating life (approx.)

Combinaison of :

- 30 hours at +370°C
- + 330 hours at +350°C
- + 300 hours at +310°C
- + 2500 hours at +300°C
- + 32840 hours at +260°C

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

NSA 935132 DJ

260°C Operating Fire Resistant Wires

Applications

Heavy duty applications in Aero-engines
and very high temperature areas.

600 Volts RMS

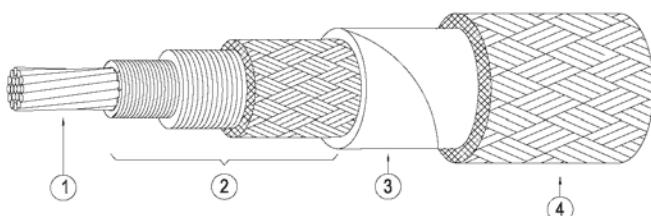
Construction

CONDUCTOR

- 1- Stranded conductor nickel plated copper

INSULATION

- 2- Special Fire Resistant Composite Insulation
- 3- PTFE tape(s)
- 4- PTFE Coated Fiber Glass Braid



Other characteristics

Operating frequency : up to 1800 Hz
Mould and fungus resistant
Non flammable

Standards

NSA935132
MIL-DTL-25038



-55°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids

NSA 935132 DJ

NEXANS Part Number	US AWG	Conductor		Finished Wire			Maximum DC Resistance at 20°C (68°F) (Ohms/Km)
		Stranding Nbr x Dia. of strands (mm)	Diameter Max. (mm)	Min.	Max.	Weight max. (g/m)	
NSA 935132 DJ	22	12 x 0.20	0.85	0.85	2.50	10.0	71.20
NSA 935132 DJ	20	19 x 0.20	1.10	1.10	2.60	13.0	45.00
NSA 935132 DJ	18	19 x 0.25	1.32	1.32	2.90	18.0	28.80
NSA 935132 DJ	16	19 x 0.30	1.60	1.60	3.10	22.0	20.00
NSA 935132 DJ	14	27 x 0.30	1.95	1.95	3.60	32.0	14.40
NSA 935132 DJ	12	45 x 0.30	2.50	2.50	4.50	48.0	8.45
NSA 935132 DJ	10	75 x 0.30	3.30	3.30	5.30	71.5	5.20
NSA 935132 DJ	8	127 x 0.30	4.50	4.50	6.40	115	3.00
NSA 935132 DJ	6	27 x 7 x 0.30	5.60	5.60	7.80	175	2.07
NSA 935132 DJ	4	37 x 12 x 0.25	7.30	7.30	9.50	265	1.27
NSA 935132 DJ	2	37 x 19 x 0.25	8.80	8.80	11.30	415	0.805
NSA 935132 DJ	1	37 x 23 x 0.25	10.00	10.00	12.20	485	0.66
NSA 935132 DJ	0	37 x 29 x 0.25	11.30	11.30	13.30	625	0.525
NSA 935132 DJ	00	37 x 37 x 0.25	12.50	12.50	15.40	785	0.414

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

Identification

Color : Wire Standard Colour : Natural with Red stripe.

10310-N0C***

**Fire Resistant Cable
Single and Multi-cores Screened
and Jacketed**

Applications

Aero engine services.

600 Volts RMS

Construction

CORE

- 1- Stranded conductor :
- Nickel clad copper alloy (AWG22)
or Nickel clad copper (AWG20 to 16)
- 004 : 19 x 0.15 mm
- 006 : 19 x 0.20 mm
- 010 : 19 x 0.25 mm
- 012 : 19 x 0.30 mm

INSULATION

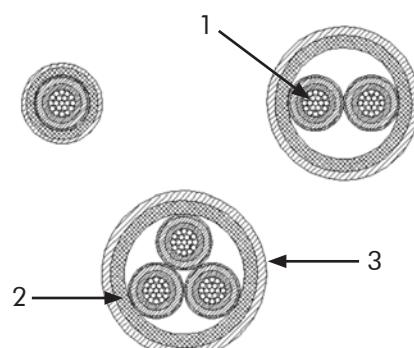
- Fire resistant insulation
- Polyimide Tape
- PTFE Tape

SCREEN

- 2- Nickel plated copper braid

JACKET

- 3- UV PTFE Tape(s)



Other characteristics

Operating frequency : up to 2000 Hz

Standards

448-010-3-10



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids

10310-N0**C*

Reference	Size code (NEXANS)	AWG	Diam.of screen strand (mm)	Finished Wire				
				Nbr. of cores	Colours of cores	Diameter Max. (mm)	Weight Max. (g/m)	Max. DC Resistance at 20°C (68°F) (Ohms/Km)
10310-N01CB22BL	004	22	0.10	1	White with red stripe	1.68	7.04	106
10310-N01CA20BL	006	20	0.10	1		1.85	8.85	55.3
10310-N01CA18BL	010	18	0.12	1		2.08	12.2	31
10310-N01CA16BL	012	16	0.12	1		2.39	17.56	19.6
10310-N02CB22BL	004	22	0.12	2	1 White with red stripe 1 White with blue stripe	2.73	12.27	109.2
10310-N02CA20BL	006	20	0.12	2		3.05	15.77	57
10310-N02CA18BL	010	18	0.12	2		3.59	23.97	31.9
10310-N02CA16BL	012	16	0.12	2		4.08	32.29	30.2
10310-N03CB22BL	004	22	0.12	3	1 White with red stripe 1 White with blue stripe 1 White with yellow stripe	2.89	16.44	109.2
10310-N03CA20BL	006	20	0.12	3		3.23	21.45	57
10310-N03CA18BL	010	18	0.12	3		3.81	32.85	31.9
10310-N03CA16BL	012	16	0.12	3		4.34	44.90	30.2

Nacelles and engines:
high temperature,
fire resistant/fire proof cables

Identification

Single core:

White with Red stripe

Two cores:

White with Red stripe - White with Blue stripe

Three cores:

White with Red stripe - White with Blue stripe

- White with Yellow stripe

Marking on Jacket :

White with Red stripe

10310-N0**C* ** BL F0241 + + +

with :

** = Number of Cores

* = A : Nickel clad copper, B : Nickel clad copper alloy

+ + + = Year of manufacturing

Part 4

Coaxial cables for high frequency transmission

STUDY 124962

50 Ohms, UV laser markable miniature

Applications

With similar transmission characteristics to KX 22A / RG 316U.
This cable has the following advantages :

- Lower diameter and weight .
- Better bendability.
- Better screening effectiveness
(Double braid)
- UV Laser markability

Recommended for Aeronautics uses and miniature systems.

Construction

CONDUCTOR

1- 19x0.098 mm silvered plated copper alloy (Nom. Ø = 0.48 mm)

JACKET

4- ETFE UV Laser markable OD 2.35 ± 0.05 mm

INSULATION

2- Expanded PTFE (Nom. Ø = 1.35 mm)

SHIELD

3- Silver plated copper 7/100 double braid Coverage ≥ 85% US (Nom. Ø = 2.00 mm)



Bend radius

Static : 12 mm

Dynamic : 25 mm

Standards

NF C 93-550

MIL C 17



-65°C to +150°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

■ Study 124962 - Electrical characteristics

Characteristic impedance		$50 \pm 5 \Omega$
Linear capacitance at 1 kHz	Nominal value	90 pF/m
	Maximal value	100 pF/m
Attenuation at	10 MHz	0.09 dB/m
	100 MHz	0.26 dB/m
	200 MHz	0.37 dB/m
	500 MHz	0.65 dB/m
	1000 MHz	1.06 dB/m
	1500 MHz	1.33 dB/m
Voltage rating		250 Volts eff. 50 Hz
Voltage withstand between dielectric and shield		3000 Volts eff. 50 Hz
Jacket dry impulse test		5000 Volts
DC resistance at 20°C		$\leq 144 \Omega/\text{km}$
Insulation resistance	Between dielectric and shield	$\geq 1500 M\Omega.\text{km}$
	Jacket	$\geq 1500 M\Omega.\text{km}$
Nominal relative velocity of propagation		76 %

■ Study 124962 - Physical characteristics

Weight	Nominal	13.0 g/m
	Maximum	14.0 g/m
Strippability		Mechanical device or automatic stripper
Outer jacket color		Green

STUDY 124964

50 Ohms, UV laser markable miniature

Applications

With similar transmission characteristics to KX 22A / RG 316U.
This cable has the following advantages :

- Lower diameter and weight
- Better bendability
- Better screening effectiveness (Double braid)
- UV Laser markability

Recommended for Aeronautics uses and miniature systems.

Construction

CONDUCTOR

- 1- 19x0.098 mm silver plated copper alloy (Nom. Ø 0.48 mm)

INSULATION

- 2- Expanded PTFE Nom. Ø 1.35 mm

SHIELD

- 3- Silver plated copper 7/100 double braid Coverage ≥ 62% Nom. Ø 2.00 mm

INNER JACKET

- 4- FEP OD Ø 2.35 ±0.05 mm

SHIELD

- 5- Silver plated copper 10/100 Coverage ≥ 62% Nom. Ø 2.80 mm

OUTER JACKET

- 6- ETFE UV laser markable OD Ø 3.45 ±0.10 mm



Minimum bending radius

Static : 17 mm

Dynamic : 35 mm

Standards

NF C 93 550

MIL C 17



-65°C to +150°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

■ Study 124964 - Electrical characteristics

Characteristic impedance		$50 \pm 5 \Omega$
Linear capacitance at 1 kHz	Nominal value	90 pF/m
	Maximal value	100 pF/m
Attenuation at	10 MHz	0.09 dB/m
	100 MHz	0.26 dB/m
	200 MHz	0.37 dB/m
	500 MHz	0.65 dB/m
	1000 MHz	1.06 dB/m
	1500 MHz	1.33 dB/m
Voltage rating		250 Volts eff. 50 Hz
Voltage withstand between dielectric and shield		3000 Volts eff. 50 Hz
Jacket dry impulse test		5000 Volts
DC resistance at 20°C		$\leq 144 \Omega/\text{km}$
Insulation resistance	Between dielectric and shield	$\geq 1500 M \Omega.\text{km}$
	Jacket	$\geq 1500 M \Omega.\text{km}$
Nominal relative velocity of propagation		76 %

■ Study 124964 - Physical characteristics

Weight	Nominal	27.0 g/m
	Maximum	30.0 g/m
Strippability		Mechanical device or automatic stripper
Outer jacket color		Green

STUDY 132868

**CAC 875 - 75 Ohms coaxial cable
UV laser markable miniature**

Applications

Designed for high frequency signal transmission in aircraft radio communication systems.

900 Volts RMS

Construction

CONDUCTOR

1- 7x0.10 mm high strength silver plated copper alloy ($\varnothing 0.30 \pm 0.025$ mm)

INSULATION

2- Fluorocarbon dielectric with low epsilon (Max. $\varnothing 1.30$ mm)

SHIELD

3- Silver plated copper double braid
Strands $\varnothing 0.08$ mm
Min. $\varnothing 1.75$ mm
Max. $\varnothing 1.95$ mm

JACKET

4- ETFE UV laser markable
Max. $\varnothing 2.37$ mm



Bending radius

Static : 15 mm

Dynamic : 25 mm

Standards

prEN 4604-001, -002 and
SP132868
prEN 3475

Other characteristics

Operating frequency : up to 3 GHz

Mould and fungus resistant



-65°C to +150°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

■ Study 132868 - Electrical characteristics

Dry test voltage between core and shield	2000 V eff 50 Hz
Jacket dry impulse test	5000 V
Ohmic resistance of conductor	384 Ω/km max.
Insulation resistance	≥5000 MΩ.km
Characteristic impedance	75 ±5 Ω
Linear capacitance	60 pF/m max.
Velocity of propagation	≥ 222 000 km/s (74% relative)

Frequency (MHz)	Max rated power (W)	Attenuation at 20°C (dB/100m)
50	1250	23
100	900	30
200	600	43
300	450	53
400	400	63
1000	270	102
3000	150	176

■ Study 132868 - Physical characteristics

Maximum weight	12.5 g/m
Outer jacket color	Light blue

STUDY 132869

**CAC 876 - 75 Ohms triaxial cable
UV laser markable miniature**

Applications

Designed for high frequency signal transmission in aircraft radio communication systems.

900 Volts RMS

Construction

CONDUCTOR

1- 7x0.10 mm high strength silver plated copper alloy ($\varnothing 0.30 \pm 0.025\text{mm}$)

INSULATION

2- Fluorocarbon dielectric with low epsilon (Max. $\varnothing 1.30\text{ mm}$)

SHIELD

3- Silver plated copper double braid
Strand $\varnothing 0.08\text{ mm}$
Min. $\varnothing 1.75\text{ mm}$
Max. $\varnothing 1.95\text{ mm}$

INNER JACKET

4- ETFE
 $\varnothing 2.32 \pm 0.05\text{ mm}$

SHIELD

Silver plated copper
Strands $\varnothing 0.10\text{ mm}$

OUTER JACKET

Laser UV ETFE
Max. $\varnothing 3.47\text{ mm}$



Bend radius

Static : 17 mm

Dynamic : 35 mm

Other characteristics

Operating frequency : up to 3 GHz

Mould and fungus resistant

Standards

prEN 4604-001, -002 and
SP132869
prEN 3475



-65°C to +150°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHs

■ Study 132869 - Electrical characteristics

Dry test voltage between core and shield	2000 V eff 50 Hz
Jacket dry impulse test	5000 V
Ohmic resistance of conductor	384 Ω/km max.
Insulation resistance	≥5000 MΩ.km
Characteristic impedance	75 ±5 Ω
Linear capacitance	60 pF/m max.
Velocity of propagation	≥ 222 000 km/s (74% relative)

Frequency (MHz)	Max rated power (W)	Attenuation at 20°C (dB/100m)
50	1250	23
100	900	30
200	600	43
300	450	53
400	400	63
1000	270	102
3000	150	176

■ Study 132869 - Physical characteristics

Maximum weight	25.5 g/m
Inner color jacket	Light blue
Outer jacket color	Light blue

■ Applications

Designed for signal transmission applications in aeronautic environment.

■ Construction

CONDUCTOR

Solid silver plated copper
(OD 0.88 to 0.93 mm)

INSULATION

Fluoropolymer
(OD 2.35 ± 0.15 mm)

SHIELD

Metallized foil
Silver plated copper braid
(OD 3.05 ± 0.15 mm)

JACKET

White Fluoropolymer - UV laser
(OD 3.55 ± 0.15 mm)



■ Bend radius

Static : 37 mm

Dynamic : 100 mm

■ Standards

prEN 4604-001, -002 and -003
prEN 3475 and prEN 3838

■ Other characteristics

Operating frequency : up to 3 GHz

Mould and fungus resistant

UV laser markable



-65°C to +200°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

EN 4604-003 WZ - Electrical characteristics

Dielectric strength	4000 V eff 50 Hz
Corona extinction	1900 V eff 50 Hz
Insulation resistance	$\geq 1000 \text{ M}\Omega.\text{km}$
Characteristic impedance	$50 \pm 2 \Omega$
Linear capacitance	88 pF/m max.
Velocity of propagation	$\geq 225\,000 \text{ Km/s}$ (75% relative)
Transfert impedance	30 m Ω /m, up to 3 GHz max.

Frequency (MHz)	Max rated power (W)	Attenuation at 20°C (dB/100m)
50	1100	11
200	660	19
400	450	28
1000	250	47
3000	150	90

EN 4604-003 WZ - Physical characteristics

Maximum weight	30 g/m
Jacket color identification	Green or black
Cable identification	EN WZ FRF**

With :

FR = Country of Origin (FR = France)
 F = Manufacturer (F = Nexans)
 ** = Year of manufacturing (ie. 08 = 2008)

Applications

Designed for high frequency signal transmission application in aircraft radio communication systems.

Construction

CONDUCTOR

7x0.16 mm silver plated copper - (OD 0.48 mm)

INSULATION

Fluorocarbon (OD 1.50 mm)

SHIELD

1st layer
Silver plated copper braid
(Strand Ø 0.085 mm)
2nd layer
High permeability tape

3rd layer

Silver plated copper braid
Strand Ø 0.085 mm
OD : 2.20 ± 0.14 mm

JACKET

2 polyimide tapes
OD 2.40 ± 0.16 mm
Color : amber



Bend radius

Static : 15 mm

Dynamic : 28 mm

Standards

prEN 4604-001, -002 and -004
prEN 3475

Other characteristics

Operating frequency : up to 3 GHz

Mould and fungus resistant

Specially designed for high EMC performances



-55°C to +200°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

EN 4604-004 WS - Electrical characteristics

Dielectric strength	1500 V _{ac}
Operating voltage	1300 V _{ac}
Insulation resistance	$\geq 5000 \text{ M}\Omega.\text{km}$
Characteristic impedance	$50 \pm 5 \Omega$
Linear capacitance	$95 \pm 10 \text{ pF/m}$
Velocity of propagation	207 000 km/s nominal (69% relative)
Transfert impedance	45 m Ω /m, up to 100 MHz max.

Frequency (MHz)	Max rated power (W)	Attenuation at 20°C (dB/100m)
50	600	26
100	400	36
200	270	55
400	180	78
1000	120	140
3000	75	195

EN 4604-004 WS - Physical characteristics

Maximum weight	20 g/m
Cable identification in black	EN WS FRF**

With :

- FR = Country of Origin (FR = France)
- F = Manufacturer (F = Nexans)
- ** = Year of manufacturing (ie. 08 = 2008)

Applications

Designed for high frequency signal transmission in aircraft radio communication systems.

Construction

CONDUCTOR

7x0.10 mm strands of high strength silver plated copper alloy (\varnothing 0.30 ±0.025 mm)

INSULATION

Fluorocarbon
Max \varnothing 1.30 mm

SHIELD

Silver plated copper double braid
Strand \varnothing 0.08 mm
Min. \varnothing 1.75 mm
Max. \varnothing 1.95 mm

JACKET

4- Fluorocarbon
(Max. \varnothing 2.35 mm)



Bend radius

Static : 15 mm
Dynamic : 25 mm

Standards

prEN 4604-001, -002 and -005
prEN 3475-100

Other characteristics

Operating frequency : up to 3 GHz
Mould and fungus resistant



-55°C to +200°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

EN 4604-005 WL - Electrical characteristics

Dielectric strength	2000 V _{ac}
Operating voltage	900 V RMS max.
Ohmic resistance of conductor	384 Ω/Km max.
Insulation resistance	≥5000 MΩ/Km
Characteristic impedance at 200 MHz	75 ±5 Ω
Linear capacitance	60 pF/m max.
Velocity of propagation	≥ 222 000 Km/s (74% relative)
Transfert impedance max.	30 mΩ/m, up to 0.1 MHz
	15 mΩ/m, at 1 MHz
	3 mΩ/m, at 20 MHz
	11 mΩ/m, at 100 MHz

Frequency (MHz)	Max. rated power (W)	Attenuation at 20°C (dB/100m)
50	1250	23
100	900	30
200	600	43
300	450	53
400	400	63
1000	270	102
3000	150	176

EN 4604-005 WL - Physical characteristics

Maximum weight	12.5 g/m
Jacket color	Blue
Cable identification in black	EN WL FRF**

With :

FR = Country of Origin (FR = France)
 F = Manufacturer (F = Nexans)
 ** = Year of manufacturing (ie. 08 = 2008)

EN 4604-006 WM

50 Ohms coaxial cable

Applications

Designed for high frequency signal transmission in aircraft electrical systems.

Construction

CONDUCTOR

Solid silver plated copper
OD 1.02 ± 0.03 mm

INSULATION

Low density PTFE
OD 2.84 ± 0.10 mm

SHIELD

1st layer
Silver plated copper tape
2nd layer
Silver plated copper braid
Strand Ø 0.10 mm
OD 3.50 ± 0.20 mm

JACKET

Violet Fluoropolymer
OD 3.85 ± 0.15 mm



Bend radius

Static : 25 mm
Dynamic : 70 mm

Standards

prEN 4604-001, -002 and -006
prEN 3475

Other characteristics

Operating frequency : up to 5 GHz
Mould and fungus resistant



-55°C to +200°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

EN 4604-006 WM - Electrical characteristics

Dielectric strength	2500 V _{ac}
Operating voltage	750 V _{ac}
Insulation resistance	≥5000 MΩ.km
Characteristic impedance	50 ±3 Ω
Linear capacitance	82 pF/m max.
Velocity of propagation	243 000 km/s nominal (81% relative)

Frequency (MHz)	Max rated power (W)	Attenuation at 20°C (dB/100m)
50	2800	8
100	2000	11.5
400	1100	20.5
1000	600	40
5000	300	85

EN 4604-006 WM - Physical characteristics

Maximum weight	35 g/m
Jacket color	Violet
Cable identification in black	EN WM FRF**

With :

FR = Country of Origin (FR = France)
 F = Manufacturer (F = Nexans)
 ** = Year of manufacturing (ie. 08 = 2008)

Applications

Designed for high frequency signal transmission in aircraft electrical systems.

Construction

CONDUCTOR

Solid silver plated copper
OD 2.30 ± 0.03 mm

INSULATION

Expanded PTFE
OD 6.20 ± 0.10 mm

SHIELD

1st layer
Silver plated copper tape
2nd layer
Silver plated copper braid
Strand Ø 0.20 mm
OD 7.50 ± 0.20 mm

JACKET

Violet Fluoropolymer
OD 8.00 ± 0.20 mm



Bend radius

Static : 80 mm
Dynamic : 120 mm

Standards

prEN 4604-001, -002 and -007
prEN 3475

Other characteristics

Operating frequency : up to 6 GHz
Mould and fungus resistant



-55°C to +200°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

EN 4604-007 WN - Electrical characteristics

Dielectric strength	3000 V _{ac}
Operating voltage	1000 V _{ac}
Insulation resistance	≥5000 MΩ.km
Characteristic impedance	50 ±3 Ω
Linear capacitance	82 pF/m max.
Velocity of propagation	243 000 km/s nominal (81% relative)

Frequency (MHz)	Max. rated power (W)	Attenuation at 20°C (dB/100m)
50	8000	3.5
100	5000	5.5
400	3000	10
1000	2000	15
5000	800	35
6000	700	41

EN 4604-007 WN - Physical characteristics

Maximum weight	145 g/m
Jacket color	Violet
Cable identification in black	EN WN FRF**

With :

FR = Country of Origin (FR = France)
 F = Manufacturer (F = Nexans)
 ** = Year of manufacturing (ie. 08 = 2008)

EN 4604-008 WD

50 Ohms coaxial cable

Applications

Designed for high frequency
radio communications
applications in aeronautic
environment.

Construction

CONDUCTOR

37x0.34 mm silver plated
copper
 \varnothing 2.33 ± 0.05 mm

JACKET

White Fluoropolymer
 \varnothing 7.70 ± 0.20 mm

DIELECTRIC

Low density Fluorocarbon
 \varnothing 6.0 ± 0.10 mm

SHIELD

Two braids
Silver plated copper 0.13 mm
 \varnothing 7.10 ± 0.10 mm



Bend radius

Static : 40 mm
Dynamic : 80 mm

Standards

prEN 4604-001, -002 and -008
prEN 3475

Other characteristics

Operating frequency : up to 8 GHz
Mould and fungus resistant



-55°C to +200°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

EN 4604-008 WD - Electrical characteristics

Dielectric strength	2500 V _{ac}
Ionization extinction voltage	1500 V _{ac}
Insulation resistance	$\geq 5000 \text{ M}\Omega\cdot\text{km}$
Characteristic impedance	$50 \pm 2 \Omega$
Linear capacitance	90 pF/m max.
Velocity of propagation	240 000 km/s nominal

Frequency (MHz)	Nom. rated power (W)	Max. attenuation at 20°C (dB/100m)
50	5700	5.0
100	4000	7.2
150	3100	9.1
200	2700	10.7
400	1800	16.1
1000	1000	28.6
1600	730	39.6
2500	530	55.0
3000	480	61.0
8000	250	110.0

EN 4604-008 WD - Transfer impedance

Frequency (MHz)	Maximum values (mΩ/m)
From 0 to 0.01	4.2
0.1	4.0
1	1.3
5	0.6
10	1.0
30	2.3
100	5.5

EN 4604-008 WD - Physical characteristics

Maximum weight	137 g/m
Jacket color	White
Cable identification in black	EN WD FRF**

With :

FR = Country of Origin (FR = France)

F = Manufacturer (F = Nexans)

** = Year of manufacturing (ie. 08 = 2008)

Applications

Designed for high frequency signal transmission in aircraft electrical systems.

DRAFT

Construction

1- CONDUCTOR

Solid silver plated copper clad aluminum
 $\varnothing : 2.30 \pm 0.02 \text{ mm}$

Strand diameter : 0.13 mm

$\varnothing : 6.87 \pm 0.20 \text{ mm}$
OD $7.50 \pm 0.20 \text{ mm}$

2- INSULATION

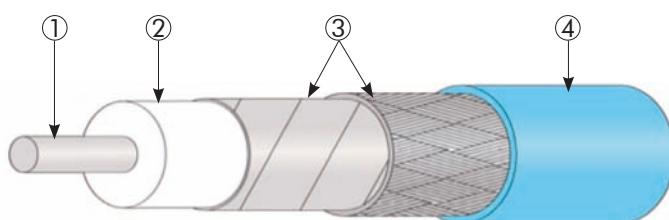
Expanded fluoropolymer
 $\varnothing : 6.20 \pm 0.10 \text{ mm}$

4- JACKET

Fluoropolymer
 $\varnothing : 7.65 \pm 0.15 \text{ mm}$

3- SHIELD

1st layer
Silver plated copper tape
2nd layer
Silver plated copper clad aluminum braid



Bend radius

Static : 80 mm
Dynamic : 120 mm

Standards

prEN 4604-010 P3D2

Other characteristics

Operating frequency : up to 6 GHz
Mould and fungus resistant



-55°C to +180°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

EN 4604-009 KW - Electrical characteristics

Dielectric strength	3000 V _{ac}
Operating voltage	1000 V _{ac}
Insulation resistance	≥5000 MΩ.km
Characteristic impedance at 200 MHz	50 ±2 Ω
Linear capacitance	80 pF/m max.
Velocity of propagation	≥81% relative
Maximum conductor ohmic resistance	7.15 Ω/km
Maximum transfer impedance up to 400 MHz	20 m Ω /m

Frequency (MHz)	Maximum attenuation at 20°C (dB/100m)	Maximum Return Loss
50	3.5	1.1
100	5.5	1.1
400	10	1.15
1000	15	1.15
5000	35	1.2
6000	41	1.35

EN 4604-009 KW - Physical characteristics

Maximum weight	95 g/m
Jacket color	Turquoise
Cable identification in black	EN KW FRF**

With :

FR = Country of Origin (FR = France)
 F = Manufacturer (F = Nexans)
 ** = Year of manufacturing (ie. 13 = 2013)

Applications

Designed for high frequency signal transmission in aircraft electrical systems.

DRAFT

Construction

1- CONDUCTOR

Solid silver plated copper
 $\varnothing : 1.40 \pm 0.02$ mm

2- INSULATION

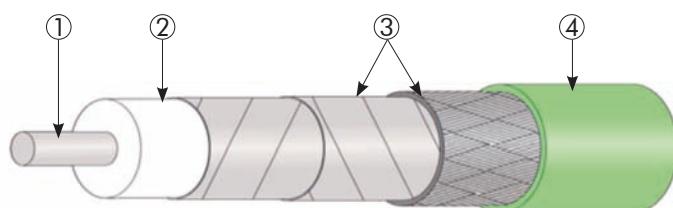
Expanded fluoropolymer
 $\varnothing : 4.20 +0.10/-0.15$ mm

3- SHIELD

1st layer
 Silver plated copper tapes
 2nd layer
 Silver plated copper braid
 Strand diameter : 0.13 mm
 $\varnothing : 4.80 \pm 0.20$ mm

4- JACKET

Fluoropolymer
 $\varnothing : 5.40 \pm 0.15$ mm



Bend radius

Static : 30 mm
 Dynamic : 50 mm

Standards

prEN 4604-010 P3D1

Other characteristics

Operating frequency : up to 6 GHz
 Mould and fungus resistant



-55°C to +200°C



Flame retardant
 FAR/JAR part 25
 sec 25.869 (a)(4)
 Appendix F
 part 1 (3)



Very good
 resistance to
 aircraft fluids



RoHS

EN 4604-010 KX - Electrical characteristics

Dielectric strength	2500 V _{ac}
Operating voltage	1000 V _{ac}
Insulation resistance	≥5000 MΩ.km
Characteristic impedance	50 ±2 Ω
Linear capacitance	88 pF/m max.
Velocity of propagation	≥75% relative
Maximum conductor ohmic resistance	11.53 Ω/km

Frequency (MHz)	Maximum attenuation at 20°C (dB/100m)	Maximum Return Loss
50	5.1	1.10
100	7.2	1.10
150	9.1	1.10
200	10.7	1.15
400	16.1	1.15
1000	28.6	1.15
1600	39.6	1.20
2500	55.0	1.20
3000	61.0	1.20
6000	110.0	1.35

Frequency (MHz)	Maximum Transfer Impedance (mΩ/m)
0 to 0.01	9.0
0.1	9.0
1	5.0
5	1.8
10	1.0
30	0.5
100	0.5

EN 4604-010 KX - Physical characteristics

Maximum weight	80 g/m
Jacket color	Light Green
Cable identification in black	EN KX FRF**

With :

FR = Country of Origin (FR = France)
 F = Manufacturer (F = Nexans)
 ** = Year of manufacturing (ie. 13 = 2013)

Applications

Miniature triaxial cable in aeronautic environment.

Construction

CONDUCTOR

7 x 0.175 mm silver plated copper alloy
Ø 0.53 mm

INSULATION

PTFE
Ø 1.52 mm

SHIELD

Silver plated copper 10/100
Coverage ≥ 65%
Nom. Ø 1.98 mm

INNER JACKET

FEP (OD 2.49 ± 0.10 mm)

SHIELD

Silver plated copper 10/100
Coverage ≥ 65%
Nom. Ø 2.94 mm

JACKET

FEP (OD 3.50 ± 0.15 mm)



Minimum bending radius

Static : 18 mm
Dynamic : 35 mm

Standards

ECS 0757

Nexans part number

Study 132847



-65°C to +200°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



ECS 0757 KE - Electrical characteristics

Characteristic impedance		$50 \pm 2 \Omega$
Linear capacitance at 1 kHz	Maximal value	105 pF/m
Attenuation at	10 MHz	9.5 dB/100 m
	100 MHz	35 dB/100 m
	200 MHz	49 dB/100 m
	400 MHz	69 dB/100 m
	500 MHz	77 dB/100 m
	1000 MHz	108 dB/100 m
	1500 MHz	133 dB/100 m
Voltage rating		900 Volts eff. 50 Hz
Voltage withstanding between dielectric and shield		2000 Volts eff. 50 Hz
Jacket dry impulse test		5000 Volts impulse
DC resistance at 20°C		$\leq 124 \Omega/\text{km}$
Insulation resistance	Between dielectric and shield	$\geq 5000 M\Omega.\text{km}$
	Jacket	$\geq 1500 M\Omega.\text{km}$
Nominal relative velocity of propagation		69.5 %

ECS 0757 KE - Physical characteristics

Nominal weight	30.0 g/m
Strippability	Mechanical device or automatic stripper
Inner and Outer color jacket	Transparent green
Cable identification	KE FR F **

With :

- FR = Country of Origin (FR = France)
- F = Manufacturer (F = Nexans)
- ** = Year of manufacturing (ie. 08 = 2008)

ECS 0745 KC

**75 Ohms triaxial cable
200°C operating temperature**

Applications

Designed for radio frequency signal transmission in aircraft radio communication systems.

Construction

CONDUCTOR

7 x 0.10 mm strands of high strength silver plated copper alloy
 $\varnothing 0.30 \pm 0.025$ mm

INSULATION

Fluorocarbon
 Max. $\varnothing 1.30$ mm

SHIELD

Silver plated copper double braid
 Strands $\varnothing 0.08$ mm
 Max. $\varnothing 1.95$ mm

INNER JACKET

Fluorocarbon
 Max. $\varnothing 2.37$ mm

SHIELD

Silver plated copper
 Strands $\varnothing 0.10$ mm

OUTER JACKET

Fluorocarbon
 $\varnothing 3.40 \pm 0.10$ mm



Bend radius

Static : 17 mm
 Dynamic : 35 mm

Standards

ECS 0745
 prEN 3475

Other characteristics

Operating frequency : up to 3 GHz
 Mould and fungus resistant



-65°C to +200°C



Flame retardant
 FAR/JAR part 25
 sec 25.869 (a)(4)
 Appendix F
 Part 1 (3)



Very good
 resistance to
 aircraft fluids



RoHS

ECS 0745 KC - Electrical characteristics

Dry test voltage between core and shield	2000 Vac
Inner and outer jacket dry impulse test	5000 V
Operating voltage	500 V RMS max.
Ohmic resistance of conductor	384 Ω/km max.
Insulation resistance	≥ 5000 MΩ.km (conductor/shield) ≥ 1500 MΩ.km (between shields)
Characteristic impedance	75 ±5 Ω
Linear capacitance	60 pF/m max. at 1kHz
Velocity of propagation	222 000 km/s (74% relative)
Transfer impedance	30 mΩ/m up to 100 MHz

Frequency (MHz)	Max rated power (W)	Attenuation at 20°C (dB/100m)
10	640	10
50	290	23
100	200	30
200	140	43
300	110	53
400	100	63
1000	65	102
3000	37	176

ECS 0745 KC - Physical characteristics

Maximum weight	27 g/m
Inner and Outer jacket color	Blue
Cable identification in black	KC FR F**

With :

FR = Country of Origin (FR = France)
 F = Manufacturer (F = Nexans)
 ** = Year of manufacturing (ie. 08 = 2008)

PAN 6422

UV laser markable PTFE coaxial cables

Applications

Designed for general purpose coaxial cables.

Construction

CONDUCTOR

Stranded conductor in silver plated copper or silver plated copper covered steel

INSULATION

Extruded PTFE

SHIELD

Silver plated copper single or double braid

JACKET

Polyimide tape, UV laser PTFE tape(s) (Munsell color limits 5YR 6/4 to 5YR 7/4)



Bend radius

6 times cable O.D.

Standards

PAN 6422
MIL-C-17
BS 2316

Other characteristics

Operating frequency : up to 1 GHz

Very good resistance to solvents

Very good resistance to soldering operations.



-65°C to +200°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

PAN 6422 (Metric units)

PART NUMBER	MIL-C-17 PART NUMBER	CONDUCTOR			INSULATION	SHIELD		FINISHED CABLE	
		Composition (Nbr x Dia. of strand) (mm)	Nature	Nom. Dia. (mm)		Number	Nature	Nom. Diameter (mm)	Nom. Weight (Kg/ Km)
PAN 6422 XQ	M17/172-00001 (RG316/U)	7 x 0.17	SPCCS	0.51	1.52	1	SPC	2.22	14
PAN 6422 XR	M17/175-00001 (RG400/U)	19 x 0.195	SPC	0.96	2.95	2	SPC	4.28	58
PAN 6422 XT	M17/169-00001 (RG178/U)	7 x 0.10	SPCCS	0.30	0.82	1	SPC	1.54	7.2
PAN 6422 XU	URM107	7 x 0.82	SPC	2.46	7.25	1	SPC	8.66	180
PAN 6422 XY	M17/94-RG179 (RG179/U)	7 x 0.10	SPCCS	0.30	1.60	1	SPC	2.30	14
PAN 6422 XZ	M17/95-RG180 (RG180/U)	7 x 0.10	SPCCS	0.30	2.59	1	SPC	3.29	26

SPC : Silver plated copper

SPCCS : Silver plated Copper covered Steel

PAN 6422 - Electrical characteristics

PART NUMBER	MIL-C-17 PART NUMBER	Nominal Impedance (Ω)	Attenuation dB/100m at (MHz)				Volts RMS (Max)
			10	100	400	1000	
PAN 6422 XQ	M17/172-00001 (RG316/U)	50	19.7	37.4	65.6	101.5	900
PAN 6422 XR	M17/175-00001 (RG400/U)	50	3.96	14.4	31.6	53.2	1400
PAN 6422 XT	M17/169-00001 (RG178/U)	50	18.45	46.0	92.0	151.0	750
PAN 6422 XU	URM107	50	1.7	6.3	13.6	23.4	3500
PAN 6422 XY	M17/94-RG179 (RG179/U)	75	17.45	32.9	52.5	79.0	900
PAN 6422 XZ	M17/95-RG180 (RG180/U)	95	3.96	14.4	31.6	53.2	1100

ASNE 0293 XF

50 Ohms coaxial cables

Applications

Designed for avionic interconnection.

Construction

CORE

19 x 0.20 silver plated copper

INSULATION

Extruded PTFE

Nom. Ø 2.95 mm

SCREEN

Dual silver plated copper braid

Strands Ø 0.13 mm

Overall nom. Ø 4.06 mm

JACKET

FEP (Max. Ø 5.08 mm)



Minimum bend radius

50 mm

Standards

ASNE 0293



-65°C to +200°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHs

■ ASNE 0293 XF - Electrical characteristics

Characteristic impedance	50 ± 2 Ω	
Nominal capacitance	95 pF/m	
Attenuation at	10 MHz	4.3 dB/100 m
	200 MHz	19 dB/100 m
	400 MHz	28 dB/100 m
	3000 MHz	95 dB/100 m
	10000 MHz	210 dB/100 m
Voltage rating	600 Volts RMS	

■ ASNE 0293 XF - Physical characteristics

Nominal weight	67 g/m
Outer jacket color	Brown
Cable identification in green	XF FR F **

With :

FR = Country of Origin (FR = France)

F = Manufacturer (F = Nexans)

** = Year of manufacturing (ie. 08 = 2008)

TYPE NSA 935344 XE

Applications

Designed for high frequency interconnections.

900 Volts RMS

Construction

CONDUCTOR

7 x 0.17 silver plated copper covered steel (\varnothing 0.51 mm)

INSULATION

Extruded PTFE
 \varnothing 1.52 ± 0.07 mm

SHIELD

Single silver plated copper braid
Strands \varnothing 0.10 mm

JACKET

White PTFE tapes
(\varnothing 2.70 ± 0.10 mm)



Other characteristics

Maximum operating frequency : 1.8 Ghz

Standards

NSA 935344 XE



-65°C to +250°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



RoHS

■ NSA 935344 XE - Electrical characteristics

Impedance at 200 MHz	50 ± 2 Ω
Nominal capacitance	95 pF/m
Nominal attenuation at 900 MHz	0.8 dB/m
Voltage rating	900 Volts RMS

■ NSA 935344 XE - Physical characteristics

Nominal weight	18 g/m
Outer jacket color	White
Cable identification	XE FR F **

With :

FR = Country of Origin (FR = France)

F = Manufacturer (F = Nexans)

** = Year of manufacturing (ie. 08 = 2008)

Part 5

Data bus and high speed transmission cables

ABS 0972 KB 24

Shielded quad 100 Ohms

Applications

High speed data transmission
(Ethernet networks) 100 Mbit/s
and in-flight entertainment
application.

600 Volts RMS

Construction

4 CONDUCTORS

19 x 0.13 mm silver copper
stranded AWG 24
FEP Insulated
 $\varnothing = 1.40 \pm 0.05$ mm
Color : Blue, Red, Yellow,
Green

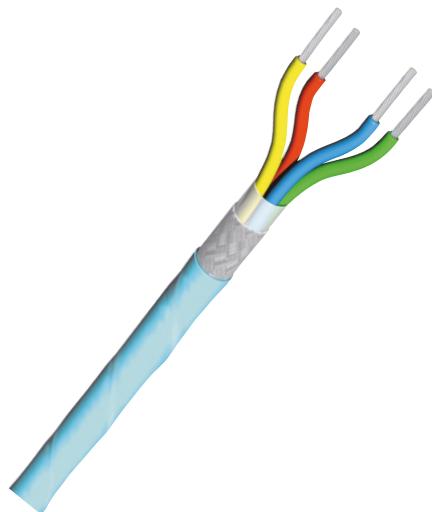
Natural FEP filler

SCREEN

Wrapping tape
0.10 mm silver copper braid
 $\varnothing = 3.90 \pm 0.15$ mm

SHEATH

Clear blue FEP jacket for UV
laser marking
 $\varnothing = 4.40 \pm 0.20$ mm



Other characteristics

 Minimum Bending Radius
Static = 20 mm

Standards

ABS 0972

Nexans part number

Study 2PC236



-55°C to +125°C
(operating temperature)
-55°C to +200°C
(storage temperature)



Flame retardant
FAR/JAR part 25
sec 25.869 (g)(4)
Appendix F
part 1 (3)

■ ABS 0972 KB 24 - Electrical characteristics

Loop resistance at 20°C (Max)	19.2 Ω/100 m	
Insulation resistance at 20°C	1500 MΩ.km	
Impedance	100 Ω ± 15 Ω from 1 to 100 MHz	
Velocity of propagation	≥69%	
N.E.X.T.	> 68 -15 x log (F) dB from 1 to 100 MHz	
Attenuation at (nominal values)	1 MHz	2.1 dB/100m
	4 MHz	4.1 dB/100m
	10 MHz	6.5 dB/100m
	16 MHz	8.2 dB/100m
	20 MHz	9.3 dB/100m
	31.25 MHz	11.7 dB/100m
	62.5 MHz	17 dB/100m
	100 MHz	22 dB/100m

■ ABS 1503 KD 24 - Physical characteristics

Nominal weight	40.28 g/m
----------------	-----------

■ Identification

Inkjet marking pitch length ≈ 300 mm

Pitch length between the two next marking ≈ 150 mm

AB KB 24 FR F "year of manufacturing"

ABS 1503 KD 24

Shielded quad 100 Ohms

Applications

High speed data transmission
(Ethernet networks) 100 Mbit/s
and in-flight entertainment
application.

600 Volts RMS

Construction

4 CONDUCTORS

19 x 0.13 mm silver copper
stranded AWG 24
FEP Insulated
 $\varnothing = 1.40 \pm 0.05$ mm
Color : Blue, Red, Yellow,
Green

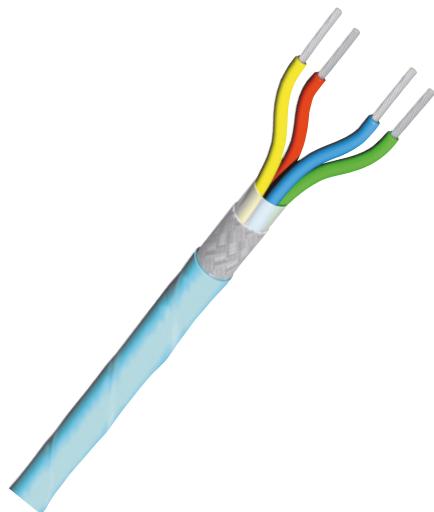
Natural FEP filler

SCREEN

Wrapping tape
0.10 mm silver copper braid
 $\varnothing = 3.90 \pm 0.15$ mm

SHEATH

Clear blue FEP jacket for UV
laser marking
 $\varnothing = 4.40 \pm 0.20$ mm



Other characteristics



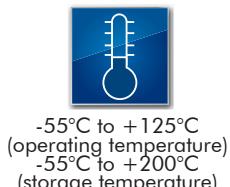
Minimum Bending Radius
Static = 20 mm

Standards

ABS 1503

Nexans part number

Study 2PF870



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

■ ABS 1503 KD 24 - Electrical characteristics

Loop resistance at 20°C (Max)	19.2 Ω/100 m	
Insulation resistance at 20°C	1500 MΩ.km	
Impedance	100 Ω ± 15 Ω from 1 to 100 MHz	
Velocity of propagation	≥70%	
N.E.X.T.	> 68 -15 x log (F) dB from 1 to 100 MHz	
Attenuation at (nominal values)	1 MHz	2.1 dB/100m
	4 MHz	4.1 dB/100m
	10 MHz	6.5 dB/100m
	16 MHz	8.2 dB/100m
	20 MHz	9.3 dB/100m
	31.25 MHz	11.7 dB/100m
	62.5 MHz	17 dB/100m
	100 MHz	22 dB/100m

■ ABS 1503 KD 24 - Physical characteristics

Nominal weight	40.28 g/m
----------------	-----------

■ Identification

Inkjet marking pitch length ≈ 300 mm

Pitch length between the two next marking ≈ 150 mm

AB KD 24 FR F "year of manufacturing"

STUDY 69794 - EN 3375-004 C - WJ

77 Ohms, Bus lines for multiplexed transmission

Applications

Data bus cables for multiplexed transmission.
Used for bus system MIL STD 1553.

600 Volts RMS

Construction

2 FILLERS

2 CORES

AWG 24, 0.21mm²
19 x 0.12 silver plated
copper alloy (EN 2083)
Fluoropolymer
 $\varnothing = 1.05 \pm 0.10$ mm

LAY-UP

\varnothing nom. = 2.10 mm

SHIELD

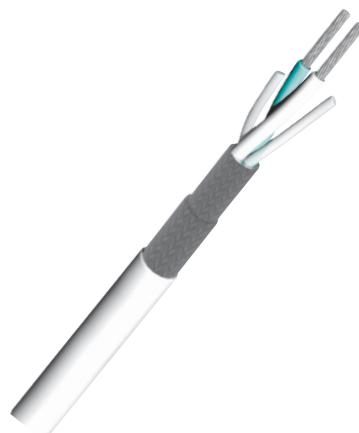
Silver plated copper 10/100

SHIELD

Silver plated copper 10/100
 $\varnothing < 3.50$ mm

JACKET

FEP jacket
 $\varnothing = 3.65 \pm 0.25$ mm



Other characteristics



Minimum static Bend Radius
45 mm

Standards

EN3375-004



-65°C to +200°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

EN 3375-004 C - WJ - Dimensions and weight

Reference	US AWG	Conductor				Insulation		Braid		Finished cable		
		Compos. N x d (mm)	Diameter (mm)		Ohmic resistance at 20°C (Ohms/Km)	Diameter (mm)		Ø Strand	Ø Max.	Overall diameter (mm)	Weight (Kg/Km)	
			Nom.	Max.	Max.	Nom.	Max.	(mm)	(mm)			
69794	24	19 x 0.12	0.59	0.62	109	1.05	1.30	0.10	3.50	3.65	3.90	37

EN 3375-004 C - WJ - Electrical characteristics

Characteristic impedance at 1 MHz	77 ± 7 Ω	
Nominal mutual capacitance	65 pF/m	
Nominal capacitance between 1 core and shield	110 pF/m	
Nominal capacitance between cores and shield	180 pF/m	
Nominal attenuation at 1 MHz	2.7 dB/100m	
Linear resistance	≤ 109 Ω/km	
Insulation resistance	≥ 1500 MΩ.km	
Voltage withstand	between conductors	1000 Volts
	between conductors and shield	1000 Volts
Jacket dry impulse	5000 Volts	
Voltage rating	250 Volts	
Maximum transfer impedance	DC current	15 mΩ/m
	1 MHz	5 mΩ/m
	10 MHz	5 mΩ/m
	30 MHz	10 mΩ/m

EN 3375-004 C - WJ - Physical characteristics

Nominal weight	28 g/m
Maximum weight	37 g/m
Outer jacket color	White
Color of cores	White, blue
Marking	FILOTEX FRANCE ET 69794-**

With :

** = Year of manufacturing (ie. 08 = 2008)

Red marking for the main line (EN 3375-004 C01, Nexans reference : ETUDE 69794-01)

Blue marking for the branch line (EN 3375-004 C02, Nexans reference : ETUDE 69794-02)

Marking

Jacket code "none":
Colour of marking: Green
Marking text: FILOTEX FRANCE ET 69794-**

Jacket code "01":
Colour of marking: Red for the main line
Marking text: FILOTEX FRANCE ET 69794-**

Jacket code "02":
Colour of marking: Blue for the branch line
Marking text : FILOTEX FRANCE ET 69794-**

(**) = Year of manufacturing

EN 3375-004 C - WJ - Maximum transfert impedance

Frequency (MHz)	Max. Transfert impedance (mohm/m)
DC	15
1	5
10	5
30	10

Applications

Use for bus system MIL STD 1553

600 Volts RMS

Construction

2 FILLERS**2 CORES**

AWG 24, 0.21mm²
19 x 0.12 silver plated
copper alloy (EN 2083)
Fluoropolymer
 $\varnothing = 1.05 \pm 0.10$ mm

LAY-UP

\varnothing nom. = 2.10 mm

SHIELD

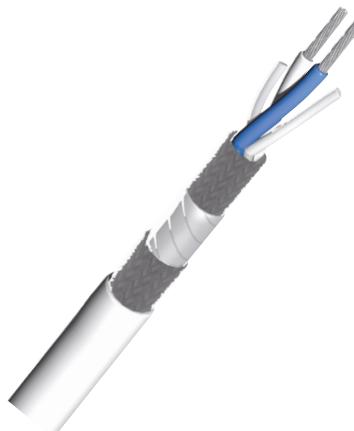
Silver plated copper 10/100

HIGH IMMUNITY TAPE**SHIELD**

Silver plated copper 10/100
 $\varnothing < 3.75$ mm

JACKET

FEP jacket
 $\varnothing = 3.85 \pm 0.25$ mm



Other characteristics



Minimum Bending Radius
Static : 40 mm

Standards

EN3375-005

Nexans part number

Study 133189



-65°C to +200°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (d)(4)
Appendix F
part 1 (3)

EN 3375-005 C - WV - Dimensions and weight

Reference	US AWG	Conductor			Insulation		Braid		Finish cable			
		Compos. N x d (mm)	Diameter (mm)		Ohmic resistance at 20°C (Ohms/Km)	Diameter (mm)		Ø Strand	Ø Max.	Overall diameter (mm)	Weight (Kg/Km)	
			Nom.	Max.	Max.	Nom.	Max.	(mm)	(mm)			
133189	24	19 x 0.12	0.59	0.62	109	1.05	1.30	0.10	3.75	3.85	4.10	43.3

EN 3375-005 C - WV - Electrical characteristics

Characteristic impedance at 1 MHz	77 ± 7 Ω	
Maximum mutual capacitance	78 pF/m	
Maximum attenuation at 1 MHz	3.6 dB/100m	
Maximum linear resistance	109 Ω/km	
Minimum insulation resistance	1500 MΩ.km	
Voltage withstanding	between conductors	1500 Volts
	between conductors and shield	1000 Volts
Jacket dry impulse	5000 Volts	
Voltage rating	600 Volts AC	

EN 3375-005 C - WV - Maximum transfert impedance

Frequency (MHz)	Max. Transfert impedance (mohm/m)
DC	15
1	0.025
10	0.025
30	0.1

EN 3375-005 C - WV - Physical characteristics

Nominal weight	34 g/m
Maximum weight	43.3 g/m

Marking

- Jacket code "none":

Colour of marking	: Green
Marking text	: EN WV 24 FRF**
- Jacket code "01":

Colour of marking	: Red for the main line
Marking text	: EN WV R24 FRF**
- Jacket code "02":

Colour of marking	: Blue for the branch line
Marking text	: EN WV B24 FRF**

(**) = Year of manufacturing

ASNE 0290 XM 24 - EN 3375-006 D

Bus pair, high temperature

Applications

General electronic wiring.
Communication data bus,
compatible RS 422.

Construction

2 CORES

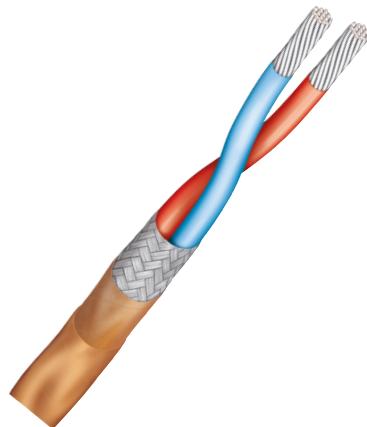
Stranded conductors
19 x 0.12 nickel plated high
strength copper alloy
Extruded colored PTFE insulation
 \varnothing = 1.13 to 1.33 mm

SCREEN

0.08 mm nickel plated copper
braid ($K_r = 0.65$ min.)

JACKET

Polyimide tapes
 \varnothing Max. = 3.10 mm



Other characteristics

 Minimum Bending Radius
25 mm

Standards

ASNE 0290
EN 3375-006



-55°C to +200°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

EN3375-006 D - Electrical characteristics

Impedance at 200 MHz		78 ± 7 Ω
Lineic capacitance		64 ± 10 % pF/m
Linear attenuation (max)	at 1 MHz	0.035 dB/m
	at 10 MHz	0.15 dB/m
Voltage rating		600 Volts RMS

EN3375-006 D - Physical characteristics

Maximum weight	15 g/m
Outer jacket color	Natural
Color of cores	Light blue, red
Marking	Marking tape beneath the jacket - XM 24 ** -FRF

With :

FR = Country of origin (FR = France)
F = Manufacturer (F = Nexans)
** = Year of manufacturing (ie. 09 = 2009)

ECS 0700 - EN 3375-007 C - WW

AWG 26 Bus line for multiplexed transmission

Applications

Bus line for multiplexed transmission

Construction

2 FILLERS

2 CORES

AWG 26, 0.15 mm²

19 x 0.10 silver plated copper

alloy (EN2083)

Fluoropolymer

$\varnothing = 0.80 \pm 0.05$ mm

LAY-UP

\varnothing nom. = 1.60 mm

SHIELD

Silver plated copper 8/100

$\varnothing < 2.00$ mm

SHIELD

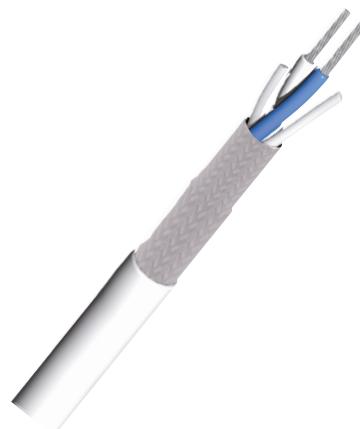
Silver plated copper 8/100

$\varnothing < 2.40$ mm

JACKET

FEP jacket

$\varnothing = 2.90 \pm 0.10$ mm



Minimum bending radius

Static : 20 mm

Standards

ECS 0700

EN 3375-007

Nexans part number

Study 132041



-65°C to +200°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (d)(4)
Appendix F
part 1 (3)

ECS 0700 - EN 3375-007 C - WW - Dimensions and weight

Reference	US AWG	Conductor				Insulation		Braid			Finish cable		
		Compos. N x d (mm)	Diameter (mm)		Ohmic resistance at 20°C (Ohms/Km)	Diameter (mm)		Ø Strand	Ø Max.	Overall diameter (mm)		Weight (Kg/Km)	
			Nom.	Max.	Max.	Nom.	Max.	(mm)	(mm)	Nom.	Max.	Max.	
132041	26	19 x 0.10	0.49	0.53	153	0.8	0.85	0.08	2.40	2.90	3.10	21	

ECS 0700 - EN 3375-007 C - WW - Electrical characteristics

Characteristic impedance at 1 MHz	77 ± 7 Ω	
Maximum mutual capacitance	75 pF/m	
Maximum attenuation at 1 MHz	4.1 dB/100m	
Linear resistance	≤ 153 Ω/Km	
Insulation resistance	≥ 1500 MΩ.km	
Voltage withstand	between conductors	1000 Volts
	between conductors and shield	1000 Volts
Jacket dry impulse	5000 Volts	
Voltage rating	250 Volts	

ECS 0700 - EN 3375-007 C - WW - Maximum transfer impedance

DC current	30 mΩ/m
1 MHz	15 mΩ/m
10 MHz	15 mΩ/m
30 MHz	15 mΩ/m

ECS 0700 - EN 3375-007 C - WW - Physical characteristics

Maximum weight	21 g/m
Outer jacket color	White
Color of cores	White, blue

Marking

For ECS 0700 & Study 133041:

Colour of marking:

Marking text:

Black

ECS 0700 WW FR F **

For EN 3375-007:

Jacket code "none":

Colour of marking:

Marking text :

Green

EN WW 26 FRF **

Jacket code "C01":

Colour of marking:

Marking text:

Red for the main line

EN WW R 26 FRF **

Jacket code "C02":

Colour of marking:

Marking text:

Blue for the branch line

EN WW B 26 FRF **

(**) = Year of manufacturing

EN 3375-009-C WX

ET 133199

120 Ohms AWG26, Data Bus cable Hight Teperature

Applications

Data bus cables for aeronic application.
Used for BUS CAN.

600 Volts RMS

Construction

CORES

7 x 0.16 mm Silver Plated
High Strength Copper Alloy
Aerated fluoropolymer
insulation

ASSEMBLY

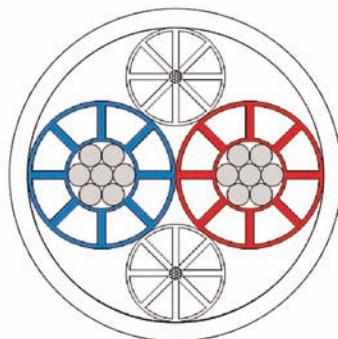
2 cores twisted with 2
aerated fillers

SHIELD

Silver Plated Copper braid
Strand diameter : 0.08 mm
Coverage ≥ 62 %

JACKET

Fluoropolymer
 $\varnothing : 2.80 \pm 0.10$ mm
Max. lineic mass : 18 kg/km



Other characteristics



Minimum Bending Radius
Static : 20 mm
Dynamic: 30 mm

Standards

EN 3375-009



-55°C to +200°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

EN 3375-009-C WX - ET 133139 - Dimensions and weight

Reference	US AWG	Conductor				Insulation		Braid			Finished cable		
		Compos. N x d (mm)	Diameter (mm)		Ohmic resistance at 20°C (Ohms/Km)	Diameter (mm)		Ø Strand	Ø Max.	Overall diameter (mm)		Weight (Kg/Km)	
			Nom.	Max.	Max.	Nom.	Max.	(mm)	(mm)	Nom.	Max.	Max.	
133199	26	7 x 0.16	0.47	0.48	145	1.05	1.12	0.08	2.50	2.80	2.90	18	

EN 3375-009-C WX - ET 133139 - High Frequency performances

Frequency (MHz)	Max Impedance (dB/100m)
1	108 < Zc < 132
20	100 < Zc < 120

Frequency (MHz)	Max Attenuation (dB/100m)
1	3
5	8

Frequency (MHz)	Nom. Transfert impedance (MΩ/m)
DC	50
1	50
10	50
30	100

EN 3375-009-C WX - ET 133139 - Physical characteristics

Color of cores	Blue, red
Outer jacket color	White
Color of cores	Black
Marking	EN WX 26 FRF**

With :

** = Year of manufacturing (ie. 08 = 2008)

STUDY 124960

77 Ohms, bus lines for multiplexed transmission

Applications

Bus lines for multiplexed transmissions.

Construction

2 FILLERS

1- PTFE

2 CORES

2- AWG 26, 0.15mm²

19 x 0.10 mm silver plated copper alloy (EN2083)
Extruded PTFE insulation
 $\varnothing = 0.80 \pm 0.05$ mm

LAY-UP

3- Nominal $\varnothing = 1.60$ mm

SHIELD

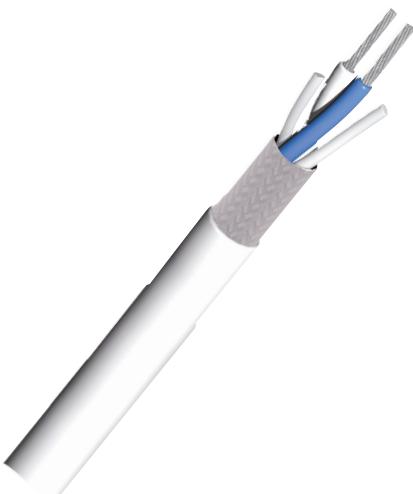
4- Silver plated copper 10/100

$\varnothing < 2.00$ mm

JACKET

5- UV laser markable ETFE

$\varnothing = 2.50 \pm 0.10$ mm



Minimum radius bending

Static : 15 mm

Standards

EN 3375



-65°C to +150°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

■ Study 124960 - Electrical characteristics

Characteristic impedance at 1 MHz	$77 \pm 7 \Omega$	
Nominal mutual capacitance	65 pF/m	
Nominal capacitance between 1 core and shield	110 pF/m	
Nominal capacitance between cores and shield	180 pF/m	
Nominal attenuation at 1 MHZ	3.5 dB/100 m	
Linear resistance	$\leq 146 \Omega/\text{km}$	
Insulation resistance	$\geq 1500 \text{ M}\Omega\text{.km}$	
Voltage withstanding between conductors	1000 Volts	
Voltage withstanding between conductors and shield	1000 Volts	
Jacket dry impulse	5000 Volts	
Voltage rating	250 Volts	
Maximum transfer impedance ($\text{m}\Omega/\text{m}$)	DC current	50
	1 MHz	50
	10 MHz	50
	30 MHz	100

■ Study 124960 - Physical characteristics

Nominal weight	14.5 g/m
Maximum weight	19 g/m
Outer jacket color	White
Color of cores	White, blue
Marking	FILOTEX FRANCE ET 124960 - **

With :

** = Year of manufacturing (ie. 08 = 2008)

Red marking for the main line (Nexans reference : ETUDE 124960-01)

Blue marking for the branch line (Nexans reference : ETUDE 124960-02)

STUDY 124961

77 Ohms, Bus lines for multiplexed transmission

Applications

Bus lines for multiplexed transmission.

Construction

2 FILLERS

PTFE

2 CORES

AWG 24, 0.21mm²

19 x 0.12 mm silver plated copper alloy (EN2083)
Extruded PTFE insulation
 $\varnothing = 1.05 \pm 0.10$ mm

LAY-UP

Nominal $\varnothing = 2.10$ mm

SHIELD

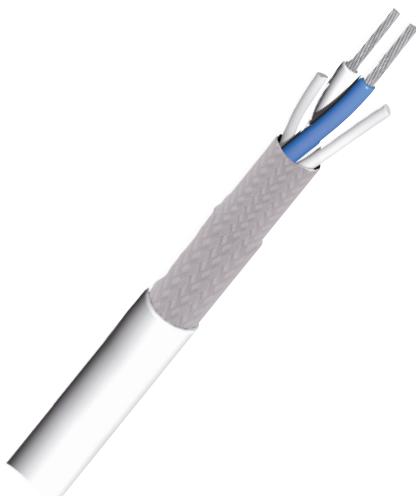
Silver plated copper 10/100

SHIELD

Silver plated copper 10/100
 $\varnothing < 3.50$ mm

JACKET

UV laser markable ETFE
 $\varnothing = 3.65 \pm 0.25$ mm



Minimum bending radius

Static : 20 mm

Standards

EN 3375



-65°C to +150°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

■ Study 124961 - Electrical characteristics

Characteristic impedance at 1 MHz	$77 \pm 7 \Omega$	
Nominal mutual capacitance	65 pF/m	
Nominal capacitance between 1 core and shield	110 pF/m	
Nominal capacitance between cores and shield	180 pF/m	
Nominal attenuation at 1 MHZ	2.7 dB/100 m	
Linear resistance	$\leq 109 \Omega/\text{km}$	
Insulation resistance	$\geq 1500 \text{ M}\Omega.\text{km}$	
Voltage withstanding between conductors	1000 Volts	
Voltage withstanding between conductors and shield	1000 Volts	
Jacket dry impulse	5000 Volts	
Voltage rating	250 Volts	
Maximum transfer impedance (Ω/m)	DC current	$15 \cdot 10^{-3}$
	1 MHz	$5 \cdot 10^{-3}$
	10 MHz	$5 \cdot 10^{-3}$
	30 MHz	$10 \cdot 10^{-3}$

■ Study 124961 - Physical characteristics

Nominal weight	28 g/m
Maximum weight	37 g/m
Outer jacket color	White
Color of cores	White, blue
Marking	FILOTEX FRANCE ET 124961 - **

With :

** = Year of manufacturing (ie. 08 = 2008)

Red marking for the main line (EN 3375-004C01, Nexans reference : ETUDE 124961-01)

Blue marking for the branch line (EN 3375-004C02, Nexans reference : ETUDE 124961-02)

STUDY 96770 - ASNE 0479 WJ - EN 3375-004B

77 Ohms, Bus lines for multiplexed transmission

Applications

Bus lines for multiplexed transmission.

Construction

2 FILLERS

PTFE

2 CORES

AWG 24, 0.21mm²

19 x 0.12 mm silver plated copper alloy (EN2083)
Extruded PTFE insulation
 $\varnothing = 1.05 \pm 0.10$ mm

LAY-UP

Nominal $\varnothing = 2.10$ mm

SHIELD

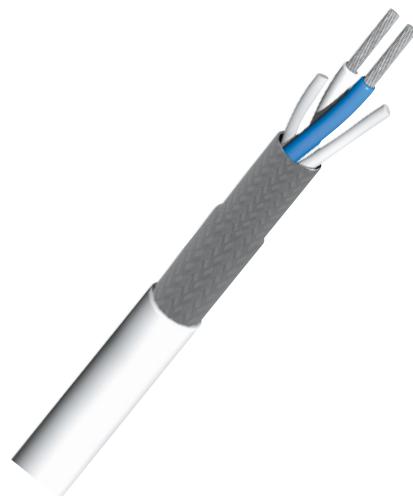
Tin plated copper 10/100

SHIELD

Tin plated copper 10/100
 $\varnothing < 3.50$ mm

JACKET

FEP jacket
 $\varnothing = 3.65 \pm 0.25$ mm



Minimum bending radius

Static : 20 mm

Standards

EN3375-004



-65°C to +150°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

■ Study 96770 - Electrical characteristics

Characteristic impedance at 1 MHz	$77 \pm 7 \Omega$	
Nominal mutual capacitance	65 pF/m	
Nominal capacitance between 1 core and shield	110 pF/m	
Nominal capacitance between cores and shield	180 pF/m	
Nominal attenuation at 1 MHZ	2.7 dB/100 m	
Linear resistance	$\leq 109 \Omega/\text{km}$	
Insulation resistance	$\geq 1500 \text{ M}\Omega.\text{km}$	
Voltage withstanding between conductors	1000 Volts	
Voltage withstanding between conductors and shield	1000 Volts	
Jacket dry impulse	5000 Volts	
Voltage rating	250 Volts	
Maximum transfer impedance (Ω/m)	DC current	$15 \cdot 10^{-3}$
	1 MHz	$5 \cdot 10^{-3}$
	10 MHz	$5 \cdot 10^{-3}$
	30 MHz	$10 \cdot 10^{-3}$

■ Study 96770 - Physical characteristics

Nominal weight	28 g/m
Maximum weight	37 g/m
Outer jacket color	White
Color of cores	White, blue
Marking	FILOTEX FRANCE ET 96770 - **

With :

** = Year of manufacturing (ie. 08 = 2008)

Red marking for the main line (EN 3375-004B01, Nexans reference : ETUDE 96770-01)

Blue marking for the branch line (EN 3375-004B02, Nexans reference : ETUDE 96770-02)

EN 4608-005 B - GPB 24

**Fireproof cable for data transmission
2 cores twisted screened and jacketed**

Applications

Use in the onboard electrical systems of aircraft.

Construction

2 CORES

Stranded conductor 19 x 0.120
nickel clad copper alloy

INSULATION

Fire resistant insulation

Polyimide tape

PTFE tape

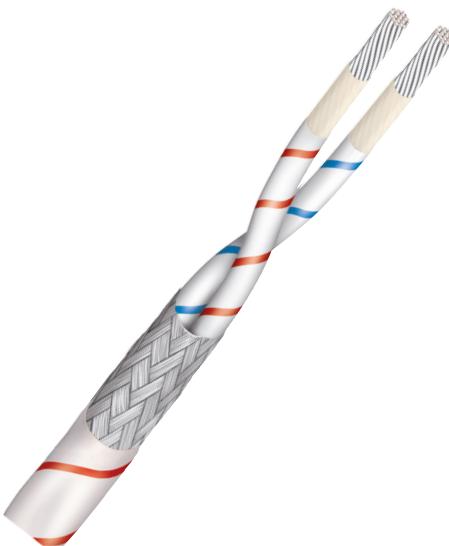
$\varnothing = 1.20$ to 1.65 mm

SCREEN

0.12 mm nickel plated copper braid

JACKET

UV PTFE tape(s)



Other characteristics

Operating frequency : up to 125 KHz

Standards

EN 4608-005



-65°C to +200°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Fire resistant
 $> 10k\Omega$
during 15 min

EN 4608-005 B 002 - GPB 24 - Dimensions and weight

REFERENCE	Size Code	AWG	Finished Cable			
			No of cores	DC Resistance at 20°C (Ohms/Km) Max.	Diameter (mm) Max.	Weight (g/m) Max.
EN 4608-005B 002	002	24	2	135	4.00	27.5

EN 4608-005 B 002 - GPB 24 - Electrical characteristics

Impedance at 100 KHz	120 ± 20 % Ω
Transfer impedance at 100 KHz	< 30 mΩ
Capacitance at 100 KHz	< 85 pF/m
Attenuation at 100 KHz	1.6 dB/100m
Voltage rating	600 Volts RMS
Fire resistance -15 mn	> 10k Ω

EN 4608-005 B 002 - GPB 24 - Physical characteristics

Core identification	2 cores	White with a helical red/blue stripe
Jacket identification	Color	White with narrow red stripe
	Marking	GPB 24 FRF**

With :

FR = Country of origin (FR = France)

F = Manufacturer (F = Nexans)

** = Year of manufacturing (ie. 08 = 2008)

PAN 6421 ZA

77 Ohms, Special electric cable (MIL-STD-1553B Data bus)

Applications

Bus lines for multiplexed transmissions.

Construction

CORES

Stranded conductor :
19 x 0.118 mm silver plated
copper alloy
Insulation : Polyimide/FEP
tape plus dispersion
 $\varnothing = 1.22$, Max. = 1.26 mm

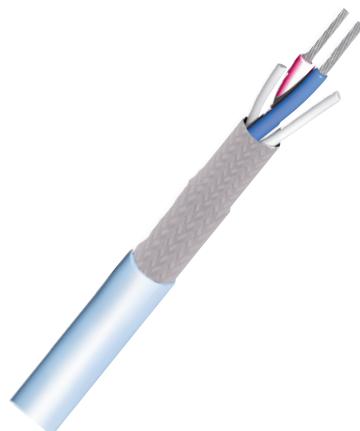
PTFE FILLERS

SCREEN

Inner screen 0.08 mm silver
plated copper braid
Outer screen 0.08 mm silver
plated copper braid

SHEATH

Extruded FEP jacket
0.20 mm minimum wall
thickness
 \varnothing min. = 3.15 mm
 \varnothing Max. = 3.80 mm
Max. Weight = 29.0 g/m



Standards

PANAVIA 75.6421
SP-P-99301-00-P

Nexans part number

Study 65529



-65°C to +150°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

PAN 6421 ZA 002 - Electrical characteristics

Characteristic impedance	77 ± 3 Ω
Mutual capacitance	98.4 pF/m
Attenuation	4.92 dB/100 m max.
Voltage rating	600 Volts RMS

PAN 6421 ZA 002 - Physical characteristics

Maximal weight	29 kg/km
Outer jacket color	Blue
Color of cores	Red, blue
Marking in black	PAN 6421 ZA 002 FR F **

With :

** = Year of manufacturing (ie. 08 = 2008)

ASNE 0259 HE 24

125 Ohms, Bus cable (AWG 24, single braid, polyimide jacket)

Applications

Bus lines.

Construction

CORES

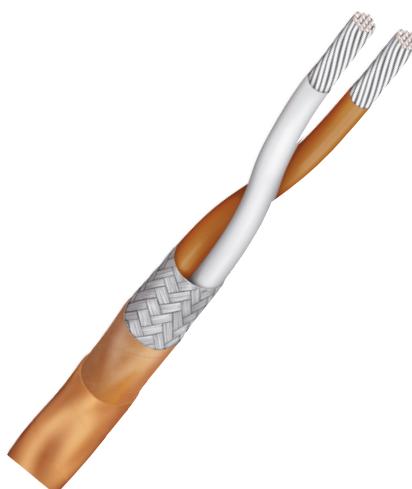
2 twisted cores AWG 24
Stranded conductor :
19 x 0.12 mm silver plated
high strength copper alloy
Insulation : Extruded PTFE
 $\varnothing = 1.97 \pm 0.03$ mm

SHIELD

0.10 mm nickel plated copper
braid (covering $\geq 62\%$)

JACKET

Polyimide tape(s)
Max. $\varnothing = 4.50$ mm



Other characteristics

Non flammable

Standards

ASNE 0259

Nexans part number

Study 63247



-55°C to +150°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

ASNE 0259 HE 24 - Electrical characteristics

Characteristic impedance	125 Ω ± 10%
Mutual capacitance	40 pF/m
Attenuation at 500 KHZ	2.5 dB/100m
Attenuation at 1 MHZ	3.1 dB/100m
Voltage withstanding between conductors	1500 Volts
Voltage withstanding between conductors and shield	1500 Volts
Maximum linear resistance of conductor at 20°C	97.2 Ω/km
Voltage rating	600 Volts RMS

ASNE 0259 HE 24 - Physical characteristics

Nominal weight	27 g/m
Outer jacket color	Natural jacket
Color of cores	White, brown

STUDY 69654

125Ohms, Bus cable (AWG 24, single braid, polyimide jacket)

Applications

Bus lines.

Construction

1- CORES

19 x 0.127 mm silver plated

copper alloy

Extruded PTFE insulation

$\varnothing = 1.85 \pm 0.13$ mm

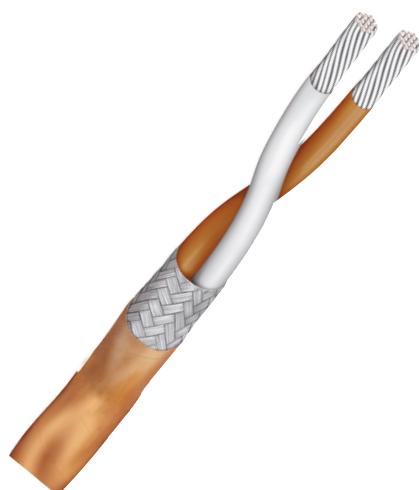
Assembly 2 cores

SHIELD

2- 0.10 mm tin plated copper
braid (covering : 68%)

JACKET

3- Polyimide tape
 $\varnothing = 4.45 \pm 0.38$ mm



Standards

Honeywell n° P7500579
(12/01/1988)



-55°C to +150°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

■ Study 69654 - Electrical characteristics

Impedance at 1 MHz	125 Ω ± 10%
Capacitance	40 ± 6.5 pF/m
Voltage withstanding between conductors	1500 Volts
Voltage withstanding between conductors and shield	1500 Volts
Voltage withstanding dry impulse of the jacket	3500 Volts
Insulation resistance	≥ 1500 MΩ.km
Voltage rating	600 Volts RMS

■ Study 69654 - Physical characteristics

Nominal weight	27 g/m
Outer jacket color	Natural jacket
Color of cores	White, brown

STUDY 124843 - ASNE 0849 HJ 26

75 Ohms, Twinaxial cable high immunity

Applications

General electronic wiring.

Construction

2 CORES

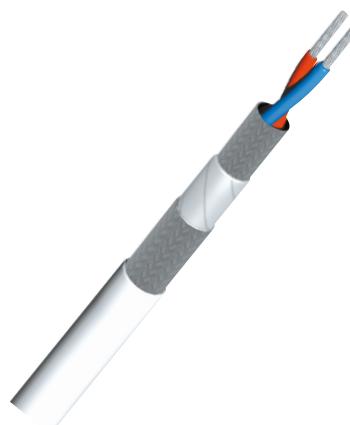
Stranded conductor
19 x 0.100 mm nickel plated
high strength copper alloy
Insulation :
Polyimide tape(s)
PTFE topcoat
 Max. = 0.84 mm

SCREEN

0.08 mm nickel plated
copper braid High immunity
tapes
 \varnothing nom. = 2.06 mm
0.10 mm nickel plated
copper braid
 \varnothing nom. = 2.50 mm

JACKET

FEP
 Max. = 3 mm

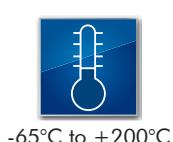


Minimum bend radius

30 mm

Standards

ASNE 0849



-65°C to +200°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

ASNE 0849 HJ 26 - Electrical characteristics

Impedance max.		75 Ω
Capacitance		40 ± 6.5 pF/m
Transfer impedance	DC	28.10 ⁻³ Ω/m
	10 kHz	8.7.10 ⁻³ Ω/m
	100 kHz	0.85.10 ⁻³ Ω/m
	2 MHz	0.8.10 ⁻⁵ Ω/m
Voltage rating		600 Volts RMS

ASNE 0849 HJ 26 - Physical characteristics

Maximum weight	22 g/m
Outer jacket color	White
Color of cores	Light blue, red
Marking of the external sheath in black	HJ 26 FR F

With :

- FR = Country of Origin (FR = France)
- F = Manufacturer (F = Nexans)
- ** = Year of manufacturing (ie. 08 = 2008)

STUDY 61333

75 Ohms, Bus lines for multiplexed transmission

Applications

Bus lines for multiplex transmission.

Construction

1- 2 PTFE FILLERS

2- 2 CORES

AWG 22, 0.38mm²

19 x 0.16 silver plated copper

Insulation : Extruded PTFE

$\varnothing = 1.50 \pm 0.03$ mm

Lay up :

\varnothing nom. = 3.00 mm

3- SHIELD

Silver plated copper 12/100

4- TAPE

High permeability alloy

5- SHIELD

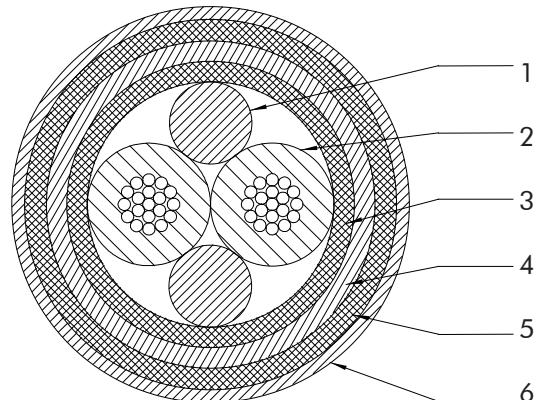
Silver plated copper 12/100

\varnothing nom. = 4.06 mm

6- JACKET

Polyimide PTFE

$\varnothing = 4.55 \pm 0.25$ mm



Standards

Approved by the Defense Ministry
under letters N°8981/STTE/CTG
(10/09/1986)

Registered at B.N.Aé N°6415 401



-65°C to +200°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

■ Study 61333 - Electrical characteristics

Characteristic impedance		$75 \pm 5 \Omega$
Mutual capacitance		$65 \pm 5 \text{ pF/m}$
Capacitance unbalance		$\leq 5\%$
Nominal attenuation	at 1 MHz	2.6 dB/100m
	at 10 MHz	10 dB/100m
Linear resistance		$\leq 50.2 \Omega/\text{km}$
Insulation resistance under 500 volts		$> 5000 \text{ M}\Omega.\text{km}$
Voltage withstand	between conductors	2000 Volts RMS
	between conductors and shield	2000 Volts RMS
Jacket dry impulse		5000 Volts
Voltage rating		600 Volts
Transfer impedance at 1 MHz		$2.5^{10-5} \Omega/\text{m}$

■ Study 61333 - Physical characteristics

Maximum weight	55.4 g/m
Outer jacket color	White
Color of cores	White, blue

ASNE 0811 WY

77 Ohms, Bus lines for multiplexed transmission

Applications

Use for bus system MIL STD 1553

Construction

2 PTFE FILLERS

2 CORES

AWG 26, 0.15mm² 19x0.10

silver plated copper alloy

(EN2083)

Insulation : Extruded PTFE

$\varnothing = 0.80 \pm 0.05$ mm

Lay up :

\varnothing nom. = 1.60 mm

SHIELD

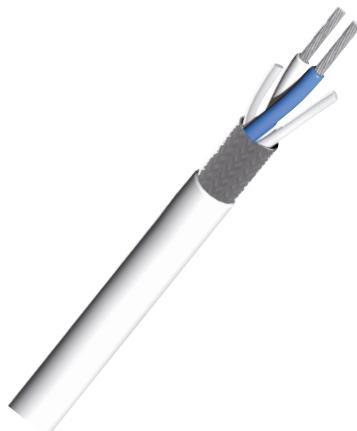
Silver plated copper 10/100

$\varnothing < 2.00$ mm

JACKET

FEP

$\varnothing = 2.50 \pm 0.10$ mm



Minimum bending radius

Static : 15 mm

Standards

ASNE 0811

Nexans part number

Study 69899-01

Study 69899-02



-65°C to +200°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

ASNE 0811 WY - Electrical characteristics

Characteristic impedance at 1 MHz	77 ± 7 Ω	
Nominal mutual capacitance	65 pF/m	
Nominal capacitance between 1 core and shield	110 pF/m	
Nominal capacitance between cores and shield	180 pF/m	
Nominal attenuation at 1 MHz	3.5 dB/100m	
Linear resistance	≤ 146 Ω/km	
Insulation resistance	≥ 1500 MΩ.km	
Voltage withstand-	between conductors	1000 Volts
standing	between conductors and shield	1000 Volts
Jacket dry impulse	5000 Volts	
Voltage rating	250 Volts	
Maximum transfer impedance	DC current	50 mΩ/m
	1 MHz	50 mΩ/m
	10 MHz	50 mΩ/m
	30 MHz	100 mΩ/m

ASNE 0811 WY - Physical characteristics

Nominal weight	14.5 g/m
Maximum weight	19 g/m
Outer jacket color	White
Color of cores	White, blue
Marking	FILOTEX FRANCE ET 69899-**

With :

** = Year of manufacturing (ie. 08 = 2008)

Red marking for the main line (Nexans reference : ETUDE 69899-01)

Blue marking for the branch line (Nexans reference : ETUDE 69899-02)

■ Applications

Data bus cable

■ Construction

2 CORES

19 x 0.12 nickel plated copper
alloy
PTFE insulation

ASSEMBLY

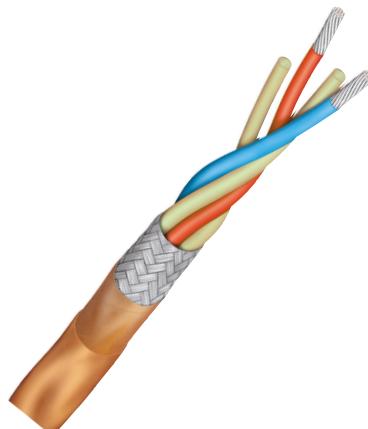
2 cores twisted with fiber glass
fillers

SCREEN

Nickel plated copper braid
Strand Ø 0.08 mm

JACKET

Polyimide tapes



■ Minimum bend radius

25 mm

■ Standards

ABS 0386

■ Nexans part number

Study 96897



-55°C to +200°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

■ ASNE 0386 WF - Dimensions and weight

Reference	US AWG	Conductor			Insulation		Braid		Finish cable		
		Composition (N x mm)	Diameter (mm) Nom.	Ohmic resistance at 20°C (Ohms/Km)	Diameter (mm)		Ø Strand	Nom.	Overall diameter (mm)		Weight (Kg/Km)
				Max.	Nom.	Max.	(mm)	(mm)	Nom.	Max.	Max.
Study 96897	24	19 x 0.12	0.59	117.5	1.40	1.50	0.08	3.12	3.30	3.50	23.4

■ ASNE 0386 WF - Electrical characteristics

Characteristic impedance at 5 MHz	100 ± 10 Ω
Maximum capacitance	60 pF/m
Attenuation	at 1 MHz
	0.03 dB/m
	at 5 MHz
	0.06 dB/m
	at 10 MHz
Voltage rating	600 Volts

■ ASNE 0386 WF - Physical characteristics

Identification	1 core	Light blue
Color of cores	1 core	Red
Outer color jacket		Amber
Marking		WF 24 FR F ** + dash

ET 132873

100 OHMS AWG 24 DATA BUS CABLE FIREPROOF CABLE

Applications

Data bus cable for aeronautic applications.

600 Volts RMS

Construction

CORES

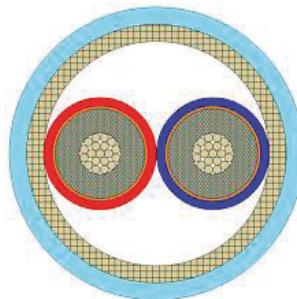
19 x 0.12 mm
Nickel Clad Copper Alloy
Fire resistant insulation
Polyimide Tape
PTFE Tape

ASSEMBLY

2 cores twisted

SHIELD

Nickel Plated Copper braid
Strand diameter : 0.12 mm
Coverage ≥ 62 %
JACKET
PTFE Tape(s)
Ø : 4.12 mm
Max. lineic mass : 38 kg/km



Standards

ESW 1254-010 (For cores)



-65°C to +260°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Fire resistant
> 10k Ω
during 15 min

■ ET 132873 - Dimensions and weight

Reference	US AWG	Conductor			Insulation	Braid		Finished cable		
		Compos. N x d (mm)	Diameter (mm)			Diameter (mm)	Ø Strand	Ø Nom.	Overall diameter (mm)	Weight (Kg/Km)
			Nom.	Max.	Max.	Nom.	Max.	(mm)	(mm)	Nom.
132873	24	19 x 0.12	0.58	0.62	135	1.58	1.65	0.12	3.64	4.12
										4.45
										38

■ ET 132873 - Electrical characteristics

Operating frequency	125 kHz
Maximum capacitance	85 pF/m
Characteristic impedance	100 Ω at 1 MHz
Maximum attenuation	1.6 dB/100 m at 0.1 MHz
Maximum transfert impedance	30m Ω /m at 0.1 MHz

■ ET 132873 - Identification

Colour of cores	Blue + Red
Colour of jacket	Light Blue with narrow red stripe
Colour of marking	Green
Marking text	ET 132873 FRF**

** = Year of manufacturing (ie. 09 = 2009)

ET 133026

124 OHMS AWG 24 DATA BUS CABLE

Applications

Data bus cable for aeronautic applications.

600 Volts RMS

Construction

CORES

19 x 0.12 mm Silver Plated High Strength Copper Alloy
Aerated fluoropolymer insulation

ASSEMBLY

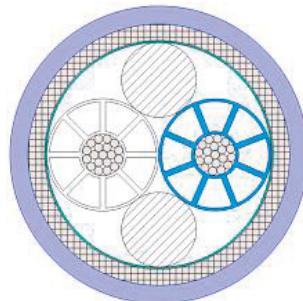
2 cores twisted with 2 fillers

SHIELD

Metallized foil
Silver Plated Copper braid
Strand diameter : 0.10 mm
Coverage $\geq 62\%$

JACKET

Fluoropolymer
 $\varnothing : 4.10 \pm 0.20$ mm
Max. lineic mass : 35 kg/km



Other characteristics



Minimum Bending Radius
23 mm



-55°C to +125°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

■ ET 133026 - Dimensions and weight

Reference	US AWG	Conductor				Insulation		Braid			Finished cable		
		Compos. N x d (mm)	Diameter (mm)		Ohmic resistance at 20°C (Ohms/Km)	Diameter (mm)		Ø Strand	Ø Nom.	Overall diameter (mm)		Weight (Kg/Km)	
			Nom.	Max.	Max.	Nom.	Max.	(mm)	(mm)	Nom.	Max.	Max.	
133026	24	19 x 0.12	0.59	0.63	105	1.55	1.60	0.10	3.60	4.10	4.30	35	

■ ET 133026 - Electrical characteristics

Characteristic impedance at 1 MHz	$124 \pm 7 \Omega$
Nominal capacitance	36 pF/m
Relative Velocity of propagation	80 % nom.
Attenuation (typical) at 10 MHz	6.6 dB/100 m

■ ET 133026 - Identification

Colour of cores	Blue + White
Colour of jacket	Translucent Blue
No marking text	

Applications

Data bus cable for aeronautic applications.

600 Volts RMS

Construction

CORES

19 x 0.15 mm
Silver Plated Copper
Aerated fluoropolymer insulation

ASSEMBLY

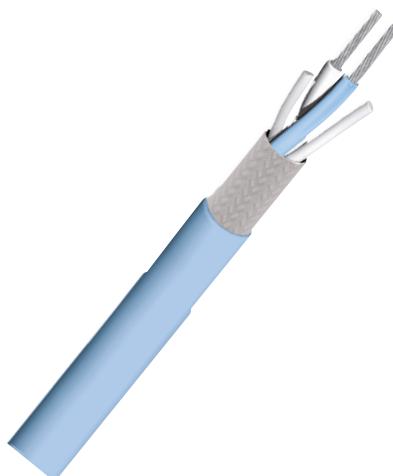
2 cores twisted with 2 aerated fillers

SHIELD

Silver Plated Copper braid
Strand diameter : 0.10 mm
Coverage $\geq 62\%$

JACKET

Fluoropolymer
 $\varnothing : 4.66 \pm 0.25$ mm
Max. lineic mass : 38 kg/km



Other characteristics



Minimum Bending Radius
45 mm



-55°C to +125°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

■ ET 133195 - Dimensions and weight

Reference	US AWG	Conductor			Insulation	Braid		Finished cable		
		Compos. N x d (mm)	Diameter (mm)			Diameter (mm)	Ø Strand	Ø Nom.	Overall diameter (mm)	Weight (Kg/Km)
			Nom.	Max.	Max.	Nom.	Max.	(mm)	(mm)	Nom.
133195	22	19 x 0.15	0.74	0.76	56	1.90	1.97	0.10	4.11	4.66
										4.91
										38

■ ET 133195 - Electrical characteristics

Characteristic impedance at 1 MHz	120 ± 7 Ω
Nominal capacitance	36 pF/m
Relative Velocity of propagation	80 % nom.
Attenuation (typical) at 10 MHz	5.6 dB/100 m

■ ET 133195 - Identification

Colour of cores	Blue + White
Colour of jacket	Translucent Blue
No marking text	-

Part 6

Special cables

STUDY 124401

Low noise screened pair transmission cable

Applications

General electronic wiring.

Construction

1- 2 CORES

Stranded conductor 19 x 0.203
nickel plated copper alloy
Insulation : Extruded PTFE +
Semi-conductive tape
 $\varnothing = 1.78$ mm

2- GLASS FIBER FILLERS

3- SEMI-CONDUCTIVE TAPE

$\varnothing = 3.74$ mm

4- SHIELD

0.12 mm nickel plated copper
braid - 91% (US) min. coverage
 $\varnothing = 4.22$ mm

5- INNER JACKET

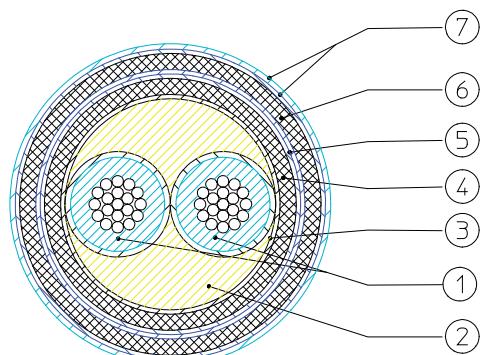
Polyimide tape(s)
51% minimum overlap

6- SHIELD

0.12 mm nickel plated copper
braid
91%(US) minimum coverage
 $\varnothing = 4.83$ mm

7- OUTER JACKET

Polyimide tape(s)
PTFE tape(s)
51% minimum overlap
 $\varnothing = 5.20 \pm 0.20$ mm



Standards

Nexans specification



-54°C to +260°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

■ STUDY 124401 - Electrical characteristics

Capacitance	between conductors	100 pF/m
	between conductors and shield	200 pF/m
Voltage withstandning	insulation	2000 Volts RMS
	jacket	5000 Volts Impulse
Voltage rating		600 Volts RMS
Insulation resistance (core/core and core/screen)		> 10^{12} $\Omega \cdot m$
Triboelectrical noise	from 30 to 90 Hz	Displacement 2 mm pk-pk <0.15 pC
	from 20 to 50 Hz	Displacement 5 mm pk-pk <1 pC
	at 2 Hz	Displacement 40 mm pk-pk <10 pC

■ STUDY 124401 - Physical characteristics

Nominal weight	68.9 g/m
Outer jacket color	Black
Color of cores	Red, blue

NSA 935 306 YK

Low noise screened pair transmission cable

Applications

Low noise cable.

Construction

2 CORES

19 x 0.17 silver plated copper
clad steel

Insulation :

Extrusion PTFE 1.40 ±0.05mm

Semi-conductive tape

Ø nom. = 1.58 mm

GLASS FIBER FILLERS

SEMI-CONDUCTIVE TAPE

SHIELD

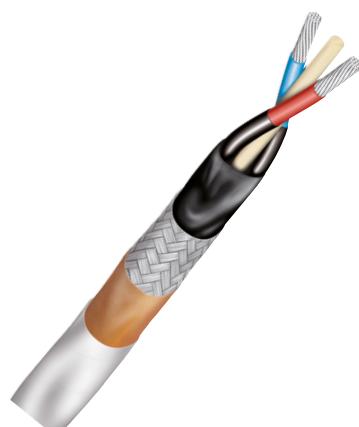
Nickel plated copper braid
Kr>70% - Ø = 0.12 mm

JACKET

Polyimide tape(s)

PTFE tape(s)

Ø Max. = 4.35 mm



Standards

NSA 935306

Nexans part number

Study 86891



-55°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



NSA 935 306 YK - Electrical characteristics

Capacitance	between conductors	100 pF/m
	between conductors and shield	200 pF/m
Voltage withstand	between conductors	1500 Volts AC
	between conductors and shield	1500 Volts AC
Voltage rating	600 Volts AC	
Insulation resistance	$\geq 1000 \text{ M}\Omega.\text{km}$	
Triboelectrical noise	at 2 Hz	Displacement 40 mm pk-pk $\leq 10 \text{ pC}$
	from 5 to 50 Hz	Displacement 5 mm pk-pk $\leq 1 \text{ pC}$
	from 10 to 70 Hz	Displacement 2 mm pk-pk $\leq 0.15 \text{ pC}$

NSA 935 306 YK - Physical characteristics

Nominal weight	38.2 g/m
Outer jacket color	White
Color of cores	Red, blue

ESW 1404-022-006

Low noise screened pair transmission cable

Applications

Low noise transmission cable.

Construction

1- 2 CORES

19x0.20 mm nickel plated copper clad steel
Semi-conductive tape
PTFE tape(s) insulation
 $\varnothing = 1.80 \pm 0.10$ mm
Semi-conductive tape
 \varnothing nom. = 1.95 mm

2- GLASS FIBER FILLERS

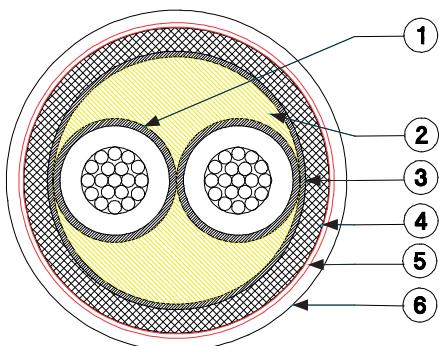
3- SEMI-CONDUCTIVE TAPE

4- SHIELD

Nickel plated copper 12/100
Coverage factor > 85%

JACKET

5- Polyimide tape(s)
6- PTFE tape(s)
 \varnothing min. = 4.50 mm
 \varnothing Max. = 4.80 mm



Standards

ESW 1404-022-006
DSS-1747

Nexans part number

Study 124762



-65°C to +260°C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



■ ESW 1404-022-006 - Electrical characteristics

Capacitance between conductors and shield		310 pF/m ± 10%
Maximum unbalance capacitance		15 pF/m
Voltage withstanding	between conductors	1500 Volts AC
	between conductors and shield	1500 Volts AC
Voltage rating		600 Volts AC
Insulation resistance		≥ 1000 MΩ.km
Electrical resistance at 20°C		≤ 75.1 Ω/km
Triboelectrical noise	at 3 Hz	Displacement 10 mm pk-pk : ≤ 0.3 pC
	from 5 to 50 Hz	Displacement 5 mm pk-pk : ≤ 0.3 pC
	from 50 to 120 Hz	Displacement 2.5 mm pk-pk : ≤ 0.3 pC

■ ESW 1404-022-006 - Physical characteristics

Maximum weight	53 g/m
Outer jacket color	White
Color of cores	White, blue
Marking	ESW1404-022-006-FX-FF-**

With :

** = Year of manufacturing (ie. 09 = 2009)

Applications

Low noise transmission cable.

Construction

1- 2 CORES

19 x 0.20 mm nickel plated copper clad steel
 $\varnothing = 0.99 \pm 0.05$ mm
 Semi-conductive tape
 PTFE tape(s) insulation
 $\varnothing = 1.80 \pm 0.10$ mm
 Semi-conductive tape
 \varnothing nom. = 1.95 mm

2- GLASS FIBER FILLERS

3- SEMI-CONDUCTIVE TAPE

4- 1st SHIELD

Nickel plated copper 12/100

5- INNER JACKET

Polyimide tape(s)

6- 2nd SHIELD

Nickel plated copper 12/100

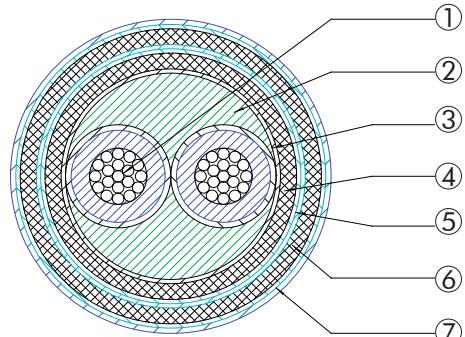
7- OUTER JACKET

Polyimide tape(s)

PTFE tape(s)

\varnothing min. = 5.30 mm

\varnothing Max. = 5.70 mm



Standards

ESW 1405-024-xxx

Nexans part number

Study 132057



-65°C to +260°C



Flame retardant
 FAR/JAR part 25
 sec 25.869 (a)(4)
 Appendix F
 part 1 (3)



Very good
 resistance to
 aircraft fluids



■ ESW 1405-024-006 - Electrical characteristics

Capacitance between conductors and shield	310 pF/m ± 10%	
Voltage withstanding	between conductors	1500 Volts RMS
	between conductors and shield	1500 Volts RMS
	between shields	500 Volts DC
Voltage rating	600 Volts RMS	
Insulation resistance	$\geq 1000 \text{ M}\Omega.\text{km}$	
Electrical resistance at 20°C	$\leq 75.1 \text{ }\Omega/\text{Km}$	
Triboelectrical noise	at 3 Hz	Displacement 10 mm pk-pk : $\leq 0.1 \text{ pC}$
	from 5 to 50 Hz	Displacement 5 mm pk-pk : $\leq 0.1 \text{ pC}$
	from 50 to 120 Hz	Displacement 2.5 mm pk-pk : $\leq 0.1 \text{ pC}$

■ ESW 1405-024-006 - Physical characteristics

Maximum weight	77 g/m
Outer jacket color	White
Color of cores	White, blue
Marking	ESW1405-024-006-FX-FF-**

With :

** = Year of manufacturing (ie. 08 = 2008)

LOW NOISE COAXIAL CABLES

CAS 85-22P

CAS 250-20 P

CAS 250-20 SP

CAS 250-22

Applications

Cables designed for low frequency connections submitted to displacements and vibration during their operation.

250/600 Volts RMS

Construction

1- CONDUCTOR

Stranded or solid silver plated copper covered steel (SPCCS)

2- DIELECTRIC

PE (CAS 85) or PTFE (CAS 250)

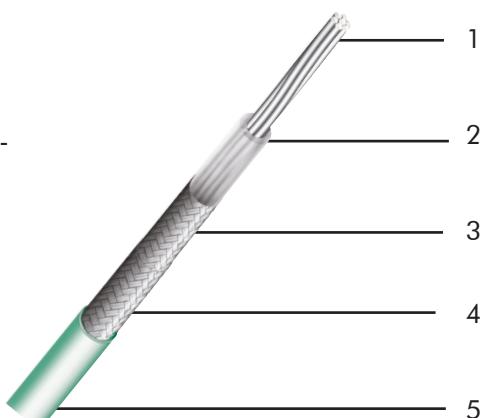
3- ANTIMICROPHONIC NOISE COATING

4- SCREEN

Bare copper or silver plated copper single braid

5- SHEATH

PVC or PTFE tape(s)
Color: green (for standard version), other colors on request.



Minimum bend radius

Static : 10 x outer diameter

Standards

NEXANS specification



Up to +85°C (CAS 85)
Up to +200°C (CAS 250)



Flexible



Low noise cables

Dielectric	Designation	Nexans reference	Conductor			Dielectric Ø mm	Braids		Sheath	
			Composition n x Ø mm	Nature	Ø mm		Nb	Nature	Nature	Overall Ø mm
PE	CAS 85-22P	87067	1 x 0.30	SPCCS	0.30	1.10 ± 0.05	1	BC	PVC	2.15 ± 0.05
PTFE	CAS 250-20 P	87208	1 x 0.30	SPCCS	0.30	1.05 ± 0.05	1	SPC	PTFE	1.90 ± 0.10
PTFE	CAS 250-20 SP	87209	7 x 0.10	SPCCS	0.30	1.05 ± 0.05	1	SPC	PTFE	1.90 ± 0.10
PTFE	CAS 250-22	87068	1 x 0.30	SPCCS	0.30	0.98 ± 0.05	1	SPC	PTFE	2.15 ± 0.05

BC: Bare copper

SPC: Silver plated copper

Designation	Nexans reference	Average weight kg/km	Nominal capacitance pF/m	Velocity of propagation %	Continuous working voltage V	Triboelectric low noise level
CAS 85-22P	87067	8.0	95	70	600	<200 µvolts
CAS 250-20 P	87208	8.9	90	76	600	<200 µvolts
CAS 250-20 SP	87209	8.8	90	76	600	<200 µvolts
CAS 250-22	87068	11.6	90	76	250	<200 µvolts

MBBN 3320 YH + + + - EN 4049-004

Thermocouple cable

Applications

Thermocouple cable

600 Volts RMS

Construction

CONDUCTOR 1

Stranded conductor nickel chromium

PTFE/Polyimide/PTFE tapes

CONDUCTOR 2

Stranded conductor nickel aluminium

PTFE/Polyimide/PTFE tapes

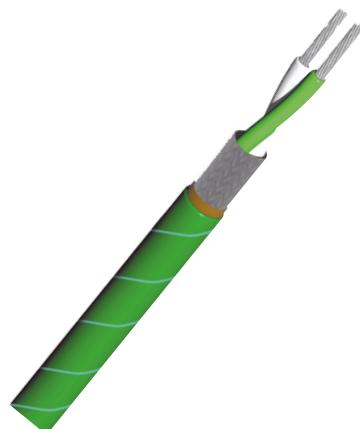
SCREEN

Nickel plated copper braid

JACKET

Polyimide tape

PTFE tape



Other characteristics

Resistant to fungus

EMF : 10.56 ± 0.12 mV at $+260^\circ\text{C}$

Standards

MBBN 3320

prEN 4049-004

ISO 8056

Nexans part number

Study 96532 (AWG 20)

Study 96533 (AWG 22)



-55°C to +260°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (g)(4)
Appendix F
part 1 (3)

■ MBBN 3320 YH + + + - EN 4049-004 - Dimensions and weight

Code for nominal section	US AWG	Conductors		Cores	Screen	Ohmic resistance at 20°C				Finished cables	
		Construction n x mm	Nominal diameter (mm)	Maximal diameter (mm)	Strands diameter (mm)	Nickel chromium (Ω/m)		Nickel alumi- nium (Ω/m)		Maximal diameter (mm)	Maximal weight (g/m)
						Min.	Max.	Min.	Max.		
004	22	19 x 0.15	0.75	1.45	0.12	1.995	2.411	0.786	0.951	4.00	24.3
006	20	19 x 0.20	1.00	1.67	0.12	1.122	1.357	0.443	0.534	4.55	31.4

■ Identification

Conductor color :

Nickel chromium conductor : White

Nickel aluminium conductor : Green

Jacket color :

Green (size 006)

Green with narrow white stripe (size 004)

Marking in black :

MBBN 3320 YH + + + FR F **

with :

+++ = Code for nominal section

FR = Country of origin (FR = France)

F = Manufacturer (F= Nexans)

** = Year of manufacturing (ie. 08 = 2008)

TYPE ASNE 0409 BG - ASNE 0410 SU ASNE 0411 TV - ASNE 0412 VF

Applications

Designed for flight testing wiring.

600 Volts RMS

Construction

CORE (ASNE 0409)

Conductor: 19 x 0.120 mm
nickel plated copper (suitable for
solderability)

PTFE tape insulation

ASSEMBLY (2 and 4 cores)

PTFE tape

SHIELD

Nickel plated copper spinning

SHEATH

Polyimide tape

Orange PTFE UV tape

ASNE 0409 BG



ASNE 0410 SU



ASNE 0411 TV



ASNE 0412 VF



Other characteristics

Operating frequency : up to 2500 Hz

Mould and fungus resistant

Solderability test on conductors : according to ASNE 0243

Standards

ASNE 0409, ASNE 0410, ASNE

0411, ASNE 0412, ASNE 0243

NSA 935000

SDF/B67-04/A/108/1128



-55°C to +200°C



Very good
resistance to
aircraft fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (d)(4)
Appendix F
part 1 (3)

ASNE 0409 BG - ASNE 0410 SU - ASNE 0411 TV ASNE 0412 VF

Nexans PART NUMBER	Nbr of cores	Dia. of strand (mm)	Finished Cable						Max. Weight g/m	
			Colors		Max. DC resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)				
			Cores	Sheath		Min.	Nom.	Max		
ASNE 0409 BG 24 UV	1	-	Orange	-	91.2	0.86	0.97	1.02	3.10	
ASNE 0410 SU 24 UV	1	0.08	White	Orange	91.2	-	1.42	1.50	6.40	
ASNE 0411 TV 24 UV	2	0.08	White + Light Blue	Orange	94	-	2.54	2.70	12.4	
ASNE 0412 VF 24 UV	4	0.10	White + Light Blue + Red + Black	Orange	94	-	2.99	3.10	21.8	

Identification

Marking color :

White on red and black wires

Dark green on other colors

Marking on cores :

BG ** FR F ++

Marking on sheath :

\$\$ ** £ FR F ++

with :

\$\$ = ASNE type (SU, TV or VF)

** = AWG wire size

£ = Topcoat code (U or None)

FR = Country of origin (FR = France)

F = Manufacturer (F= Nexans)

++ = Year of manufacturing (ie. 08 = 2008)

ECS0828 MQB, PAIR OF PAIRS ECS0829 MQD, QUAD OF PAIRS

Multi-cores Shielded and FEP Jacketed cable

Applications

Designed for general Purpose Aircraft Wiring Applications,
in replacement of AWG 24 ASN-E0642 HU and ASN-E0643 HV.

600 Volts RMS

Construction

CORES

Assembly 2 cores of
EN 2267-009A
Screen: 0.08 mm Nickel plated
copper spiral screen
Jacket: Polyimide Tape
PTFE Tape

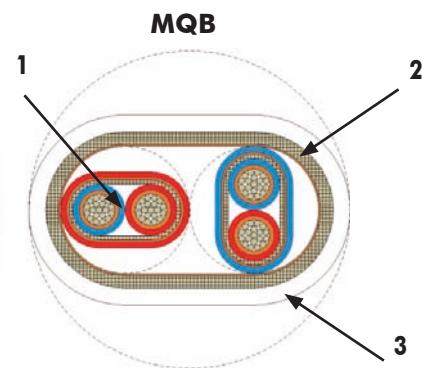
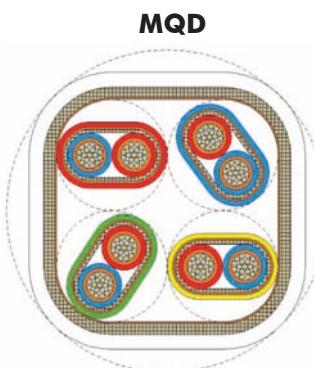
Assembly Two or Four cores
Polyimide Tape

SCREEN

Nickel plated copper braid

JACKET

FEP



Other characteristics

Mould and Fungus Resistant
Operating frequency: up to 2000 Hz

Standards

EN 2267-009 for cores
EN 2714-013 for Screened and
Jacketed multi-cores
ECS 0828 / ECS 0829 for
Screened and Jacketed cable



-55°C to 200°C



Very Good
Resistance to
Aircraft Fluids



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

EN 2714-014 - Dimensions and weight

PART NUMBERS	US AWG	Nbr of Cores Number of cores	Screen Strands nominal diameter (mm)	Finished Cable							
				Colours		Maximum DC resistance at 20°C (68°K) (Ohms/Km)	Diameter (mm)		Weight (g/m)		
				Cores	Sheath		Nom.	Max.	Nom.	Max.	
ECS0828 MQB	24	2	0.12	1 Red 1 Blue	White	117	5.16	5.90	44.15	47	
ECS0829 MQD	24	4	0.12	1 Red 1 Blue 1 Yellow 1 Green	White	117	6.29	6.80	70.18	77	

Identification

Basic Core identification Colours:

Two cores: Red - Blue

Marking : EN DR A ++ FRF**

Colour : White for Red and
Green for Blue core.

Finished Cable identification Colour:

Outer jacket : White

Marking : ### ++ FRF**

Colour : Green

= MQB Pair of pairs, MQD Quad of pairs

++ = AWG

FR = Country of Origin (FR = France)

F = Manufacturer (F = Nexans)

** = Year of manufacturing (ie. 10 = 2010)

Part 7

Optical cables

Applications

With these high mechanical, chemical and optical properties, this cable has been designed for harsh environments such as :

- Aeronautical
- Geophysics,
- Space,
- Missile,
- Chemical industry.

Construction

OPTICAL FIBER

Core + cladding + coating
Silica/Silica/Silicone
type 62.5/125/400 μm

PRIMARY JACKET

Copolymer zero halogen high temperature
 $\varnothing = 0.90 \pm 0.05 \text{ mm}$

MECHANICAL STRENGTH

Polymer aromatic fiber braid

OUTER JACKET

Copolymer zero halogen high temperature
 $\varnothing = 1.50 \text{ mm}$ (for info.)
+ ETFE

$\varnothing = 1.80 \pm 0.1 \text{ mm}$



Minimum bend radius

Storage > 40 mm
Long term > 20 mm
Short term (installation) > 12 mm

Standards

ABS 0963-003 LF
EN4641-100

Nexans part number

Study 132126



-55°C to +125°C
(long term)
-65°C to +150°C
(peak)



High chemical
resistance



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)

■ ABS 0963-003 LF - Main data

- **Maximum pulling force :**
Long term : 10 daN
Short term : 25 daN
- **Tensile strength :** > 100 daN
- **Nominal weight :** < 4 kg/km
- **Maximum attenuation at 20°C :**
at 850 nm : 4 dB/km
at 1310 nm : 2 dB/km

- **Effective index of refraction:**
at 850 nm : 1.4970
at 1300 nm : 1.4919

- **Numerical aperture : 0.275 ± 0.015**
- **Cable Bandwidth (MHz. km) :**
at 850 nm : > 400
at 1310 nm : > 1000

■ ABS 0963-003 LF - Strong points

Mechanical properties :

- High temperature
- High tensile resistance
- High flexibility
- Low weight / Small diameter
- Low bending radius
- Easy strippability

Optical properties :

- High bandwidth
- Low cost ferrules (Telecom components)

Chemical properties :

- High chemical resistance to on board fluids
- Very low smoke and toxicity (according to ABD0031 chart 1)
- Flammability : non flammable

■ ABS 0963-003 LF - Connection

Stripping of primary jacket , buffer and coating.

If mechanical stripping is used , we highly recommend :

- To strip directly from primary jacket to silica
- To carefully clean silica with a solvent such as MEK (Methylethylketone).

Residues of silicone can be removed with a wet tissue by wiping off of different angles in order to clean all the circumference of the silica.

If you dip bare fibre into solvent , take care to avoid contact between solvent and other part of the cable such as strength members, silicone and jacket.

DRAFT

Applications

Harsh environments such as:
aeronautics, geophysics,
missile, chemical industry

Construction

SPECIAL OPTICAL FIBRE

1- Core + cladding + coating
Silica/Silica/Silicone
Type (9/125/242) μm

BUFFER

2- Silicone
 $\varnothing : 400 \mu\text{m}$

PRIMARY JACKET

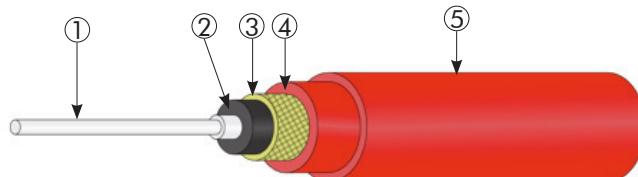
3- Copolymer High Temperature
 $\varnothing : 0.90 \text{ mm} \pm 0.05 \text{ mm}$

MECHANICAL STRENGTH

4- High modulus tensile strength
members

OUTER JACKET

5- Copolymer High Temperature
 $\varnothing : 1.50 \text{ mm}$ (For info)
+ Fluorinated polymer
 $\varnothing : 1.80 \text{ mm} \pm 0.10 \text{ mm}$



Cable preparation for connector mounting

Stripping of outer jacket.
Comb textile members with your nail
or a plastic tool to separate each textile
fibre from each other.
Strip optical fibre to remove silicone
coating (Same tool as telecom fibre,
for example: Miller stripping tool).

Standards

Mechanical properties:

- High tensile resistance
- High flexibility
- Low weight / Small diameter
- Low bending radius
- Easy strippability

Optical properties

- High bandwidth
- Low cost ferrules
- (Telecom components)

Chemical properties:

- High chemical resistance
- Very low smoke and toxicity
- No flame propagation

Study 133287 - Main data

Operating temperature - Long term		-60 to +150°C
Jacket dry impulse test	Long Term	10 daN
	Short Term	25 daN
Minimum tensile strength		100 daN
Maximal weight		4 kg/km
Minimum bend radius	Storage	18 mm
	Long Term	9 mm
	Short Term (installation)	6 mm

Study 133287 - Optical properties

Maximum attenuation at 20°C:	At 1550 nm	0.5 dB/km
	At 1310 nm	0.5 dB/km
Maximum cut off wavelength (cable)		1260 nm
Effective index of refraction		1.47
Chromatic dispersion	At 1285/1300 nm	3.5 ps/(nm.km)
	At 1550 nm	18 ps/(nm.km)
	Zero dispersion wavelength	1300/1320 nm
	Maximum slope	0.092 ps/(nm ² .km)
Other characteristics in accordance with		IEC pub 60793/1 ITU G652 Telcordia GR20-Core

Study 133287 - Identification

Colour of jacket	Red (TBC)
Color of marking	TBD
Marking text	TBD

Study 133287 - Performances

PARAMETER and Measurement norm	TEST Description and Remarks	RESULTS
Core Diameter ANSI/EIA/TI – A455-58 A		$(9.0 \pm 0.5) \mu\text{m}$
Cladding Diameter ANSI/EIA/TI – A 455-45 B		$(125.0 \pm 1.0) \mu\text{m}$
Concentricity error ANSI/EIA/TI – A 455-45 B		$\leq 0.7 \mu\text{m}$
Cladding non circularity ANSI / EIA / TI – A 455 – 45 B		$\leq 1.0 \%$
Cable longitudinal stability EN 3745 – 205 +150°C / -60°C : 4 cycles	Silica vs primary jacket Primary jacket vs outer jacket	< 100 μm for 20 m < 170 μm for 20 m
Accelerated ageing EN 3745 – 401	100 m sample \varnothing mandrel : 250 mm 24H @125 °C	Max variation of attenuation during test and residual : 0.10 dB @ 1310 nm 0.05 dB @ 1550 nm
Cable attenuation variation during temperature cycling EN 3745 – 306 +150°C / -65°C : 15 cycles	Sample length : 25 M	Max variation of attenuation : 0.30 dB @ 1310 nm 0.10 dB @ 1550 nm Max residual attenuation after 24 h : 0.10 dB @ 1310 and 1550 nm
Thermal shock EN 3745 – 404	15 cycles + 150°C / -65°C 25 M sample	Max variation of attenuation @ 1310 and 1550 nm : - during test < 0.10 dB - residual after 24 H < 0.03 dB
Flammability EN 3745 – 407	Time to flame extinction < 7 sec No falling of flaming particles No ignition of the tissue paper	Time to flame extinction : immediate Visual examination : pass
Resistance to fluids EN 3745 – 411 method 2	Fluids according to EN 3909	Weight variation < 5 % No cracks, no colour change Good printing legibility
Humidity resistance EN 3745 – 412	15 cycles, >95% R.H. (20 m) Residual $\Delta\alpha$ after test < 0.2 dB Weight variation < 5% Visual examination	Max variation of attenuation during test and residual : 0.10 dB @ 1310 nm 0.05 dB @ 1550 nm Weight variation : 0 %
Fibre proof test EN 3745 – 501	1%/0.5 second exceed 100 KPSI	$\geq 1\%$ (≥ 100 kpsi)
Cable tensile strength EN 3745 – 505	Test temperature : 20 °C Pulling speed : 50 mm/min	Max. variation of attenuation 0.07 dN @ 1310 and 1550 nm Rupture load > 1000 N
Kink test EN 3745 - 509	Loop diameter before kink 20 mm Test temperature 20°C	No kink - max variation of attenuation @ 1310 and 1550 nm : - during test < 0.2 dB - after test < 0.02 dB
Strippability EN 3745 – 701	Max load to be applied < 20 N	< 7 N both for buffer stripping and primary jacket stripping
Scrape abrasion EN 3745-503	Test temperature : 20 °C Applied load : 10 N	Max. variation of attenuation during 500 cycles test : 0.02 dB @ 1310 and 1550 nm Slight degradation of outer jacket
Micro-bending EN 3745 – 504	Load applied : 50 N Rate load applied : 50 N/min Mandrel size : 5 mm	Max. variation of attenuation : 0.1 dB @1310 nm 0.05 dB @1550 nm
Cable impact test EN 3745 – 506	Test temperature : 20°C Radius intermediate piece: 15 mm Test load : 5 N - drop height : 1 m Energy : 5 Joules - number of drops : 5	Max. variation of attenuation : 0.2 dB @1310 nm 0.1 dB @1550 nm
Cable cut-through EN 3745 – 507	Test temperature : 20°C Time of load application : 1 mn Test load : 50 N	Max. variation of attenuation : 0.2 dB @1310 nm 0.2 dB @1550 nm

Study 133287 - Performances

PARAMETER and Measurement norm	TEST Description and Remarks	RESULTS
Torsion test EN 3745 – 508	Test temperature : 20°C 1000 cycles - test load 15 daN 250 mm between rotating and fixed grips	Max. variation of attenuation : 0.05 dB @1310 nm 0.05 dB @1550 nm
Bending test EN 3745 – 510	Test temperature : 20°C Load applied : 20N – 10 turns 18 mm mandrel diameter	Max. variation of attenuation : 0.05dB @1310/1550 nm during test No residual values after test
Cable to cable abrasion EN 3745-511	Optical vs Electrical (DM18) with 1daN Optical / Optical with 500g load	107 106
Flexure endurance EN 3745-512	Test temperature : 20°C 25 mm mandrel diameter	Max. variation of attenuation after 100 000 cycles 0.1 dB @1310 nm 0.05 dB @1550 nm
Cable crush resistance EN 3745 – 513	Test temperature : 20°C 4500 N load	Max. variation of attenuation 0.05 dB @ 1310/1550 nm
Cable tie clamping EN 3745 – 517	13 mm mandrel diameter – 6 ties 2.5mm width – 100 mm between ties	Max. variation of attenuation with cable tie tension setting #3 : 0.1 dB @1310 nm 0.05 dB @1550 nm
Cable immunity to ambient light coupling EN 3745 – 305		< -80 dBm
Cable cold bend test EN 3745 – 406	Test temperature : -55 °C Mandrel diameter : 40 mm 10 turns	Max attenuation variation 0.2dB @1310nm 0.3dB @1550nm 0.05dB@1310nm 0.10dB@1550nm

PARAMETER and Measurement norm		TEST Description and Remarks		RESULTS	
PARAMETERS		With Flame		Without Flame	
		Requested	Measured	Requested	Measured
Smoke density EN 3745-601	Dm 4 mn Dm 16 mn	≤ 200 -	65 207	≤ 200 -	0 50
Toxicity at 4 mn (ppm) EN 3745-602	HF HCL HCN SO2/H2S NO/NO2 CO	≤ 100 ≤ 150 ≤ 150 ≤ 100 ≤ 100 ≤ 1000	30 0 2 0 5 50	> 100 ≤ 150 ≤ 150 ≤ 100 ≤ 100 ≤ 1000	0 0 0 0 0 ≈ 0
Toxicity at 16 mn (ppm) EN 3745-602	HF HCL HCN SO2/H2S NO/NO2 CO	≤ 100 ≤ 150 ≤ 150 ≤ 100 ≤ 100 ≤ 1000	25 0 5 0 10 400	≤ 100 ≤ 150 ≤ 150 ≤ 100 ≤ 100 ≤ 1000	6 0 1 0 0 50

Applications

Harsh environments such as:
aeronautics, geophysics,
missile, chemical industry

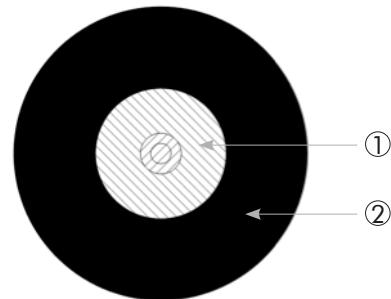
Construction

OPTICAL FIBRE

- 1- Core + cladding + coating
Silica/Silica/Silicone
Type (62.5/125/400) μm

OUTER JACKET

- 2- Copolymer 0 Halogen
High temperature
 $\varnothing : 0.90 \text{ mm} \pm 0.05 \text{ mm}$



Cable preparation for connector mounting

Stripping of primary jacket, buffer and coating.

If mechanical stripping is used, we highly recommend :

To strip directly from primary jacket to silica

- To carefully clean silica with a solvent such as MEK (Methylethylketone).

Residues of silicone can be removed with a wet tissue by wiping off of different angles in order to clean all the circumference of the silica.

If you dip bare fibre into solvent, take care to avoid contact between solvent and other part of the cable such as strength members, silicone and jacket.

Mechanical properties:

- Small diameter
- Low weight
- High temperature
- High flexibility
- Low bending radius
- Easy strippability

Standards

Optical properties

- High bandwidth
- Low cost ferrules
- (Telecom components)

Chemical properties:

- High chemical resistance to on board fluids
- Very low smoke and toxicity
- No flame propagation

Study 132574

Operating temperature - Long term		Value
	Long Term	-55 to +125 °C
	Peak	-65 to +150 °C
Maximum pulling force		10 N / 1 s
Maximal weight		1 kg/km
Minimum bend radius	Long Term	10 mm
	Short Term (installation)	6 mm

Study 132574 - Optical properties

Maximum attenuation at 20°C:	At 850 nm	4 dB/km
	At 1310 nm	2 dB/km
Effective index of refraction	At 850 nm	1.4970
	At 1310 nm	1.4919
Numerical aperture		0.275 ± 0.015
Cable Bandwith (MHz.km)	At 850 nm	> 400
	At 1300 nm	> 1000

Study 132574 - Identification

Colour of jacket	Black
Marking text	No

Specifications

According to EN4641-101

Part 8

Wires and cables for avionics

KZ 04, KZ 05, KZ 06

**Single core, unscreened hook-up wires
High temperature**

Applications

Internal wiring in electronic equipment, aircraft and satellites.
Excellent chemical resistance.
In order to increase the operating temperature of the cables up to 250°C, all KZ types can be produced with a nickel plated copper conductor on request.

From 250 to 1000 Volts

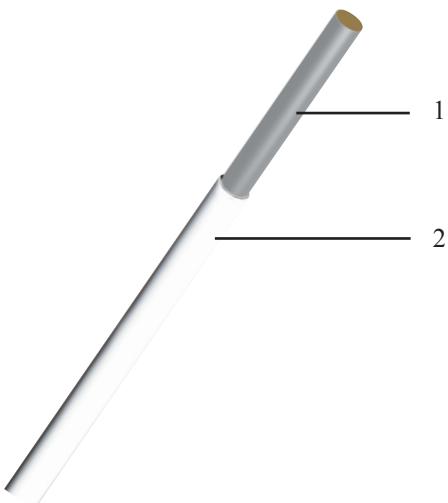
Construction

1- CONDUCTOR

Stranded silver copper wires

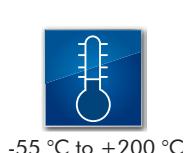
2- INSULATION

Extruded PTFE
or taped PTFE (for AWG 14 and 12)



Standards

NF C 93-523
NF C 32-070 C1



-55 °C to +200 °C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



Flexible



RoHs

KZ - Unscreened hook-up wires high temperature

NF C 93-523 and Nexans references	Gauge AWG	Cross sec- tion mm ²	Construction n x Ø mm	Nominal Ø mm	DC resistance at 20°C max. Ohms/km	overall Ø		Max. weight kg/km	Operating voltage Volts
						min.	max.		
						mm			
KZ 04 - 01	32	0.035	7 x 0.08	0.24	546	0.48	0.58	0.95	250
KZ 04 - 02	30	0.055	7 x 0.10	0.30	349	0.56	0.66	1.3	
KZ 04 - 03	28	0.093	7 x 0.13	0.39	201	0.63	0.73	1.75	
KZ 04 - 04	26	0.14	7 x 0.16	0.48	132	0.74	0.84	2.4	
KZ 04 - 05	24	0.22	7 x 0.20	0.60	86	0.86	0.96	3.4	
KZ 04 - 06	22	0.34	7 x 0.25	0.75	54.4	1.01	1.11	5.0	
KZ 04 - 07	20	0.60	19 x 0.20	1.00	31.3	1.30	1.40	8.25	
KZ 05 - 01	32	0.035	7 x 0.08	0.24	546	0.63	0.84	1.65	600
KZ 05 - 02	30	0.055	7 x 0.10	0.30	349	0.71	0.91	2.1	
KZ 05 - 03	28	0.093	7 x 0.13	0.39	201	0.79	1.00	2.6	
KZ 05 - 04	26	0.14	7 x 0.16	0.48	132	0.89	1.10	3.4	
KZ 05 - 05	24	0.22	7 x 0.20	0.60	86	1.04	1.22	4.5	
KZ 05 - 06	22	0.34	7 x 0.25	0.75	54.4	1.17	1.37	6.2	
KZ 05 - 07	20	0.60	19 x 0.20	1.00	31.3	1.42	1.62	9.5	
KZ 05 - 08	18	0.93	19 x 0.25	1.25	20.5	1.67	1.92	14.1	
KZ 05 - 09	16	1.34	19 x 0.30	1.50	13.9	1.92	2.27	20.0	
KZ 05 - 10	14	1.91	27 x 0.30	1.85	10.0	2.30	2.66	27.0	
KZ 05 - 11	12	3.18	45 x 0.30	2.45	6.0	2.89	3.24	42.5	
KZ 06 - 01	32	0.035	7 x 0.08	0.24	546	0.88	1.09	2.6	1000
KZ 06 - 02	30	0.055	7 x 0.10	0.30	349	0.95	1.16	3.0	
KZ 06 - 03	28	0.093	7 x 0.13	0.39	201	1.04	1.24	3.7	
KZ 06 - 04	26	0.14	7 x 0.16	0.48	132	1.14	1.34	4.6	
KZ 06 - 05	24	0.22	7 x 0.20	0.60	86	1.27	1.47	5.75	
KZ 06 - 06	22	0.34	7 x 0.25	0.75	54.4	1.42	1.63	7.7	
KZ 06 - 07	20	0.60	19 x 0.20	1.00	31.3	1.66	1.86	11.0	
KZ 06 - 08	18	0.93	19 x 0.25	1.25	20.5	1.92	2.17	16.0	
KZ 06 - 09	16	1.34	19 x 0.30	1.50	13.9	2.10	2.41	21.1	
KZ 06 - 10	14	1.91	27 x 0.30	1.85	10.0	2.51	2.92	30.0	
KZ 06 - 11	12	3.18	45 x 0.30	2.45	6.0	3.14	3.55	47.5	

KZ 55, KZ 57, KZ 59

**Single core, screened and
jacketed hook-up wires
High temperature**

Applications

Internal wiring in electronic equipment, aircraft and satellites. Excellent chemical resistance. In order to increase temperature of the cables up to 250°C, all KZ can be produced with a nickel plated copper conductor on request.

From 250 to 1000 Volts

Construction

1- CONDUCTOR

Stranded silver copper wires

2- INSULATION

Extruded PTFE or taped PTFE

3- SCREEN

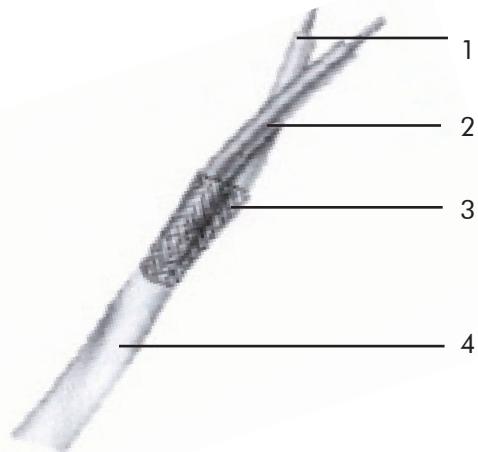
Silver copper braid

KZ 55 are reinforced with a polyimide tape

4- OUTER JACKET

FEP

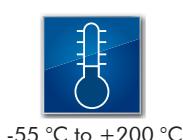
Radial thickness : 0.30 mm nominal



Standards

NF C 93-523

NF C 32-070 C1



-55 °C to +200 °C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



Flexible



RoHS

KZ 55, KZ 57, KZ 59 - Screened and jacketed hook-up wires

NF C 93-523 and Nexans references	Base core				D.C. resistance at 20°C max. Ohms/km	Braid nom. Ø of strands mm	Overall Ø		Max. weight kg/km	Operating voltage Volts	
	Type	Conductor					min.	max.			
		Gauge AWG	Cross section mm ²	Construction n x Ø mm	Nom. Ø mm		mm	mm			
KZ 55-04	KZ 04-04	26	0.14	7 x 0.16	0.48	132	0.10	1.85	2.05	8.11	
KZ 55-05	KZ 04-05	24	0.22	7 x 0.20	0.60	86	0.10	1.97	2.17	9.66	
KZ 55-06	KZ 04-06	22	0.34	7 x 0.25	0.75	54.4	0.10	2.12	2.32	11.90	
KZ 55-07	KZ 04-07	20	0.60	19 x 0.20	1.00	31.3	0.10	2.40	2.60	16.50	
KZ 57-01	KZ 05-01	32	0.035	7 x 0.08	0.24	546	0.10	1.72	1.97	6.72	
KZ 57-02	KZ 05-02	30	0.055	7 x 0.10	0.30	349	0.10	1.79	2.04	7.49	
KZ 57-03	KZ 05-03	28	0.093	7 x 0.13	0.39	201	0.10	1.88	2.13	8.39	
KZ 57-04	KZ 05-04	26	0.14	7 x 0.16	0.48	132	0.10	1.98	2.23	9.63	
KZ 57-05	KZ 05-05	24	0.22	7 x 0.20	0.60	86	0.10	2.11	2.36	11.30	
KZ 57-06	KZ 05-06	22	0.34	7 x 0.25	0.75	54.4	0.10	2.25	2.50	13.60	
KZ 57-07	KZ 05-07	20	0.60	19 x 0.20	1.00	31.3	0.13	2.65	2.90	20.00	
KZ 57-08	KZ 05-08	18	0.93	19 x 0.25	1.25	20.5	0.13	2.93	3.18	26.10	
KZ 57-09	KZ 05-09	16	1.34	19 x 0.30	1.50	13.9	0.13	3.23	3.53	33.50	
KZ 57-10	KZ 05-10	14	1.91	27 x 0.30	1.85	10.0	0.13	3.61	3.91	42.60	
KZ 57-11	KZ 05-11	12	3.18	45 x 0.30	2.45	6.0	0.13	4.19	4.49	61.10	
KZ 59-01	KZ 06-01	32	0.035	7 x 0.08	0.24	546	0.10	1.97	2.22	8.79	
KZ 59-02	KZ 06-02	30	0.055	7 x 0.10	0.30	349	0.10	2.03	2.28	9.45	
KZ 59-03	KZ 06-03	28	0.093	7 x 0.13	0.39	201	0.10	2.12	2.37	10.6	
KZ 59-04	KZ 06-04	26	0.14	7 x 0.16	0.48	132	0.10	2.22	2.47	11.9	
KZ 59-05	KZ 06-05	24	0.22	7 x 0.20	0.60	86	0.10	2.35	2.60	13.6	
KZ 59-06	KZ 06-06	22	0.34	7 x 0.25	0.75	54.4	0.13	2.65	2.90	18.2	
KZ 59-07	KZ 06-07	20	0.60	19 x 0.20	1.00	31.3	0.13	2.89	3.14	22.7	
KZ 59-08	KZ 06-08	18	0.93	19 x 0.25	1.25	20.5	0.13	3.18	3.43	29.2	
KZ 59-09	KZ 06-09	16	1.34	19 x 0.30	1.50	13.9	0.13	3.38	3.68	35.4	
KZ 59-10	KZ 06-10	14	1.91	27 x 0.30	1.85	10.0	0.13	3.84	4.19	46.8	
KZ 59-11	KZ 06-11	12	3.18	45 x 0.30	2.45	6.0	0.13	4.65	5.00	70.4	

Identification

- White insulation
- White outer jacket

KZ 67, KZ 69, KZ 71

**2 cores, Screened and jacketed pairs
High temperature**

Applications

Internal wiring in electronic equipment, aircrafts and satellites.

From 250 to 1000 Volts

Construction

1- CONDUCTOR

Stranded silver copper wires

2- INSULATION

Extruded PTFE or taped PTFE

3- SCREEN

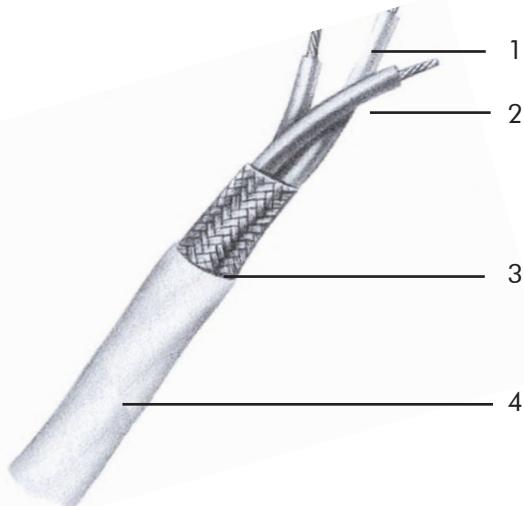
Silver copper braid

KZ 67 are reinforced with a polyimide tape

4- OUTER JACKET

FEP

Radial thickness : 0.30 mm nominal



Standards

NF C 93-523

NF C 31-070 C1



-55 °C to +200 °C



Flame retardant
FAR/JAR part 25
sec 25.869, (a)(4)
Appendix F
part 1 (3)



Flexible



Flexible



RoHS

KZ 67, KZ 69, KZ 71 - Screened and jacketed pairs

NF C 93-523 and Nexans references	Base core					D.C. resistance at 20°C max. Ohms/km	Braid nom. Ø of strands mm	Overall Ø		Average weight kg/km	Operating voltage Volts		
	Type	Conductor						Min.	Max.				
		Gauge AWG	Cross section mm ²	Construction n x Ø mm	Nom. Ø mm			mm					
KZ 67-01	KZ 04-01	32	0.035	7 x 0.08	0.24	573	0.10	2.11	2.36	8.03	250		
KZ 67-02	KZ 04-02	30	0.055	7 x 0.10	0.30	366	0.10	2.27	2.52	9.35			
KZ 67-03	KZ 04-03	28	0.093	7 x 0.13	0.39	211	0.10	2.41	2.62	10.8			
KZ 67-04	KZ 04-04	26	0.14	7 x 0.16	0.48	138	0.10	2.63	2.88	13.0			
KZ 67-05	KZ 04-05	24	0.22	7 x 0.20	0.60	90	0.13	3.02	3.27	17.9			
KZ 67-06	KZ 04-06	22	0.34	7 x 0.25	0.75	57	0.13	3.32	3.57	22.5			
KZ 67-07	KZ 04-07	20	0.60	19 x 0.20	1.00	33	0.13	3.90	4.15	31.7			
KZ 69-01	KZ 05-01	32	0.035	7 x 0.08	0.24	573	0.10	2.46	2.71	10.6	600		
KZ 69-02	KZ 05-02	30	0.055	7 x 0.10	0.30	366	0.10	2.60	2.85	12.0			
KZ 69-03	KZ 05-03	28	0.093	7 x 0.13	0.39	211	0.10	2.78	3.03	13.7			
KZ 69-04	KZ 05-04	26	0.14	7 x 0.16	0.48	138	0.13	3.13	3.38	18.1			
KZ 69-05	KZ 05-05	24	0.22	7 x 0.20	0.60	90	0.13	3.39	3.64	21.5			
KZ 69-06	KZ 05-06	22	0.34	7 x 0.25	0.75	57	0.13	3.67	3.92	26.2			
KZ 69-07	KZ 05-07	20	0.60	19 x 0.20	1.00	33	0.13	4.17	4.42	35.1			
KZ 69-08	KZ 05-08	18	0.93	19 x 0.25	1.25	21.5	0.13	4.73	5.08	46.9			
KZ 69-09	KZ 05-09	16	1.34	19 x 0.30	1.50	14.6	0.13	5.51	5.86	64.4			
KZ 69-10	KZ 05-10	14	1.91	27 x 0.30	1.85	10.5	0.13	6.27	6.62	82.4			
KZ 69-11	KZ 05-11	12	3.18	45 x 0.30	2.45	6.3	0.13	7.43	7.78	120.0			
KZ 71-01	KZ 06-01	32	0.035	7 x 0.08	0.24	573	0.13	3.11	3.36	16.4	1000		
KZ 71-02	KZ 06-02	30	0.055	7 x 0.10	0.30	366	0.13	3.23	3.48	17.7			
KZ 71-03	KZ 06-03	28	0.093	7 x 0.13	0.39	211	0.13	3.41	3.66	19.9			
KZ 71-04	KZ 06-04	26	0.14	7 x 0.16	0.48	138	0.13	3.61	3.86	22.6			
KZ 71-05	KZ 06-05	24	0.22	7 x 0.20	0.60	90	0.13	3.87	4.12	26.1			
KZ 71-06	KZ 06-06	22	0.34	7 x 0.25	0.75	57	0.13	4.17	4.42	31.4			
KZ 71-07	KZ 06-07	20	0.60	19 x 0.20	1.00	33	0.13	4.65	4.90	40.2			
KZ 71-08	KZ 06-08	18	0.93	19 x 0.25	1.25	21.5	0.13	5.39	5.64	55.6			
KZ 71-09	KZ 06-09	16	1.34	19 x 0.30	1.50	14.6	0.13	5.81	6.16	68.1			
KZ 71-10	KZ 06-10	14	1.91	27 x 0.30	1.85	10.5	0.13	6.73	7.08	90.7			
KZ 71-11	KZ 06-11	12	3.18	45 x 0.30	2.45	6.3	0.13	7.99	8.34	133			

Identification

- White and light blue insulation
- White outer jacket

KZ 79, KZ 81, KZ 83

**3 cores, screened and jacketed triples
High temperature**

Applications

Internal wiring in electronic equipment, aircrafts and satellites.

From 250 to 1000 Volts

Construction

1- CONDUCTOR

Stranded silver copper wires

2- INSULATION

Extruded PTFE or tape PTFE

3- SCREEN

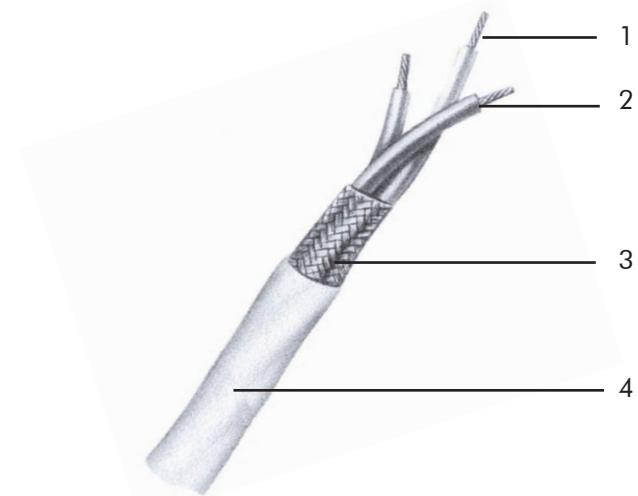
Silver copper braid

KZ 79 are reinforced with a polyimide tape

4- OUTER JACKET

FEP

Radial thickness : 0.30 mm nominal



Standards

NF C 93-523

NF C 32-070 C1



-55°C to +200°C



Fire retardant
(NF C 32-070/C1)



Flexible



EMI



RoHs

KZ 79, KZ 81, KZ 83- Screened jacketed triples

NF C 93-523 and Nexans references	Base core				D.C. resistance at 20°C max. Ohms/km	Braid nom. Ø of strands mm	Overall Ø		Average weight kg/ km	Operating voltage Volts	
	Type	Conductor					min.	max.			
		Gauge AWG	Cross section mm ²	Construction n x Ø mm	Nom. Ø mm		mm				
KZ 79-01	KZ 04-01	32	0.035	7 x 0.08	0.24	573	0.10	2.19	2.44	9.85	250
KZ 79-02	KZ 04-02	30	0.055	7 x 0.10	0.30	366	0.10	2.36	2.61	11.7	
KZ 79-03	KZ 04-03	28	0.093	7 x 0.13	0.39	211	0.10	2.51	2.76	13.7	
KZ 79-04	KZ 04-04	26	0.14	7 x 0.16	0.48	138	0.13	2.90	3.15	18.7	
KZ 79-05	KZ 04-05	24	0.22	7 x 0.20	0.60	90	0.13	3.15	3.40	23.1	
KZ 79-06	KZ 04-06	22	0.34	7 x 0.25	0.75	57	0.13	3.48	3.73	29.6	
KZ 79-07	KZ 04-07	20	0.60	19 x 0.20	1.00	33	0.13	4.10	4.35	42.7	
KZ 81-01	KZ 05-01	32	0.035	7 x 0.08	0.24	573	0.10	2.57	2.82	13.4	600
KZ 81-02	KZ 05-02	30	0.055	7 x 0.10	0.30	366	0.13	2.87	3.12	17.4	
KZ 81-03	KZ 05-03	28	0.093	7 x 0.13	0.39	211	0.13	3.07	3.32	19.9	
KZ 81-04	KZ 05-04	26	0.14	7 x 0.16	0.48	138	0.13	3.28	3.53	23.4	
KZ 81-05	KZ 05-05	24	0.22	7 x 0.20	0.60	90	0.13	3.56	3.81	28.2	
KZ 81-06	KZ 05-06	22	0.34	7 x 0.25	0.75	57	0.13	3.86	4.11	34.8	
KZ 81-07	KZ 05-07	20	0.60	19 x 0.20	1.00	33	0.13	4.40	4.65	47.6	
KZ 81-08	KZ 05-08	18	0.93	19 x 0.25	1.25	21.5	0.13	5.18	5.53	67.5	
KZ 81-09	KZ 05-09	16	1.34	19 x 0.30	1.50	14.6	0.13	5.83	6.18	89.1	
KZ 81-10	KZ 05-10	14	1.91	27 x 0.30	1.85	10.5	0.13	6.64	7.00	115	
KZ 81-11	KZ 05-11	12	3.18	45 x 0.30	2.45	6.3	0.13	7.89	8.24	169	
KZ 83-01	KZ 06-01	32	0.035	7 x 0.08	0.24	573	0.13	3.26	3.51	20.9	1000
KZ 83-02	KZ 06-02	30	0.055	7 x 0.10	0.30	366	0.13	3.39	3.64	22.7	
KZ 83-03	KZ 06-03	28	0.093	7 x 0.13	0.39	211	0.13	3.58	3.83	25.8	
KZ 83-04	KZ 06-04	26	0.14	7 x 0.16	0.48	138	0.13	3.80	4.05	29.6	
KZ 83-05	KZ 06-05	24	0.22	7 x 0.20	0.60	90	0.13	4.08	4.33	34.5	
KZ 83-06	KZ 06-06	22	0.34	7 x 0.25	0.75	57	0.13	4.40	4.65	42.1	
KZ 83-07	KZ 06-07	20	0.60	19 x 0.20	1.00	33	0.13	5.09	5.34	57.6	
KZ 83-08	KZ 06-08	18	0.93	19 x 0.25	1.25	21.5	0.13	5.70	6.15	76.2	
KZ 83-09	KZ 06-09	16	1.34	19 x 0.30	1.50	14.6	0.13	6.15	6.60	94.8	
KZ 83-10	KZ 06-10	14	1.91	27 x 0.30	1.85	10.5	0.13	7.14	7.59	127	
KZ 83-11	KZ 06-11	12	3.18	45 x 0.30	2.45	6.3	0.13	8.49	8.94	188	

Identification

- White, light blue and orange insulation
- White outer jacket

Applications

Internal wiring in electronic equipment, aircraft and satellites.
Excellent chemical resistance.

250, 600 and 1000 Volts

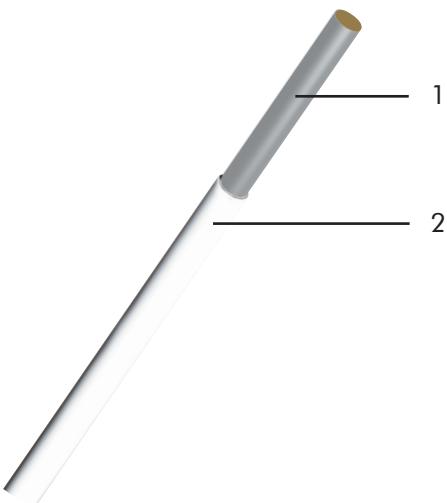
Construction

1- CONDUCTOR

Stranded silver copper wires

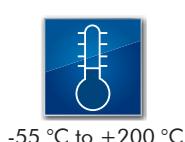
2- INSULATION

Extruded PTFE



Standards

According to
MIL W 16878/4 (EF),
MIL W 16878/5 (EEF)
MIL W 16878/6 (ETF)
NF C 32-070 C1



-55 °C to +200 °C



Flame retardant
FAR/JAR part 25
sec 25.869 (a)(4)
Appendix F
part 1 (3)



Very good
resistance to
aircraft fluids



Flexible



RoHS

■ ETF, EF & EEF - Unscreened hook-up wires, high temperature

Nexans references	Gauge AWG	Cross section mm ²	Construction n x Ø mm	Nominal Ø mm	Overall Ø		Operating voltage Volts
					min.	max.	
					mm		
ETF 32-07	32	0.035	7 x 0.079	0.24	0.50	0.61	250
ETF 30-07	30	0.057	7 x 0.102	0.30	0.56	0.66	
ETF 30-19	30	0.054	19 x 0.06	0.30	0.56	0.66	
ETF 28-07	28	0.089	7 x 0.127	0.39	0.63	0.74	
ETF 28-19	28	0.093	19 x 0.079	0.39	0.63	0.74	
ETF 26-07	26	0.14	7 x 0.16	0.48	0.74	0.84	
ETF 26-19	26	0.15	19 x 0.102	0.48	0.74	0.84	
ETF 24-07	24	0.22	7 x 0.203	0.59	0.86	0.96	
ETF 24-19	24	0.24	19 x 0.127	0.63	0.86	0.96	
ETF 22-07	22	0.36	7 x 0.254	0.74	1.01	1.12	
ETF 22-19	22	0.38	19 x 0.16	0.78	1.01	1.12	
ETF 20-07	20	0.56	7 x 0.32	0.95	1.22	1.32	
ETF 20-19	20	0.61	19 x 0.203	0.97	1.22	1.32	
EF 32-07	32	0.035	7 x 0.079	0.24	0.66	0.86	600
EF 30-07	30	0.057	7 x 0.102	0.30	0.71	0.91	
EF 30-19	30	0.054	19 x 0.06	0.34	0.71	0.91	
EF 28-07	28	0.089	7 x 0.127	0.39	0.79	1.00	
EF 28-19	28	0.093	19 x 0.079	0.39	0.79	1.00	
EF 26-07	26	0.14	7 x 0.16	0.48	0.89	1.10	
EF 26-19	26	0.15	19 x 0.102	0.48	0.89	1.10	
EF 24-07	24	0.22	7 x 0.203	0.59	1.02	1.22	
EF 24-19	24	0.24	19 x 0.127	0.63	1.02	1.22	
EF 22-07	22	0.36	7 x 0.254	0.74	1.17	1.37	
EF 22-19	22	0.38	19 x 0.16	0.78	1.17	1.37	
EF 20-07	20	0.56	7 x 0.32	0.95	1.37	1.57	
EF 20-19	20	0.61	19 x 0.203	0.97	1.37	1.57	
EF 18-07	18	0.89	7 x 0.404	1.19	1.63	1.88	1000
EF 18-19	18	0.96	19 x 0.254	1.21	1.63	1.88	
EF 16-19	16	1.23	19 x 0.287	1.45	1.85	2.21	
EEF 32-07	32	0.035	7 x 0.079	0.24	0.91	1.12	
EEF 30-07	30	0.057	7 x 0.102	0.30	0.97	1.17	
EEF 30-19	30	0.054	19 x 0.06	0.34	0.97	1.17	
EEF 28-07	28	0.089	7 x 0.127	0.39	1.04	1.24	
EEF 28-19	28	0.093	19 x 0.079	0.39	1.04	1.24	
EEF 26-07	26	0.14	7 x 0.16	0.48	1.14	1.35	
EEF 26-19	26	0.15	19 x 0.102	0.48	1.14	1.35	
EEF 24-07	24	0.22	7 x 0.203	0.59	1.27	1.47	
EEF 24-19	24	0.24	19 x 0.127	0.63	1.27	1.47	
EEF 22-07	22	0.36	7 x 0.254	0.74	1.42	1.63	
EEF 22-19	22	0.38	19 x 0.16	0.78	1.42	1.63	
EEF 20-07	20	0.56	7 x 0.32	0.95	1.63	1.83	
EEF 20-19	20	0.61	19 x 0.203	0.97	1.63	1.83	
EEF 18-07	18	0.89	7 x 0.404	1.19	1.88	2.13	
EEF 18-19	18	0.96	19 x 0.254	1.21	1.88	2.13	
EEF 16-19	16	1.23	19 x 0.287	1.45	2.10	2.41	

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