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Introduction

The Neutrik® circular connector program is a range of metal, multi-pole connectors specifically designed for industrial applications. These series provide a variety of male and female cable connectors and receptacles that can be terminated by soldering and crimping or to printed circuit boards. An easy to use and reliable quick-lock system ensures a perfect connection and cannot be released accidentally. The circular connectors offer Neutrik® unique chuck type strain relief and reinforced housing for robust dependability.

The Neutrik® industrial connector range also features a unique power connector for single phase applications up to 32 Amps.

Further features are:

- Number of contacts is 1 to 12
- Self-locking system
- Robust all-metal housing
- Front or rear mounting
- Chuck and crimp type strain relief
- Gold plated contacts
- Solder or crimp termination
- Printed circuit board mounting
- Excellent shielding (crimp type strain relief)

The main areas of applications are in the measurement, test and control, automotive and machine tool industry as well as medical technique.



Ergonomic quick lock



Bushing with secure key



Overmolded ready made cable



Locking key



1/4" flat tabs

powerCON TRUE1 - Lockable 16 A single phase connector







NAC3MX



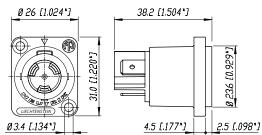
NAC3MPX



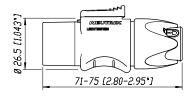
NAC3PX

- True mains connector with breaking capacity (CBC)
- Lockable 16 / 20 A single phase connector
- Complete system with inlet and outlet connectors
- Unique duplex chassis connector combines inlet and outlet coupler
- IP65 water resistant ready-made cord sets
- VDE certified according to IEC 60320
- Easy and reliable locking system
- UL recognized

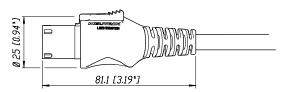
NAC3MPX



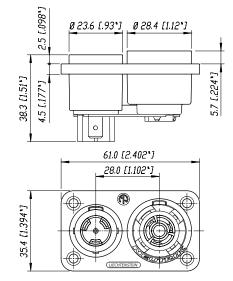
NAC3MX



NKA3FX



NAC3PX



Ordering Information

Cable Connector

NAC3FX	Mains cable connector, female CBC, screw terminals
NAC3MX	Mains cable connector, male CBC, screw terminals

NKAC3F-x-y-z Overmolded ready-made cable with NAC3FX on one side and

x ... different length in m or ft y ... EU or US version (H05VV, SJT) z ... different termination on second end

Chassis Connector

NAC3MPX Mains chassis connector male CBC, 1/4" flat tab terminals

NAC3PX Mains chasssis duplex, 1/4" flat tab terminals

Accessories

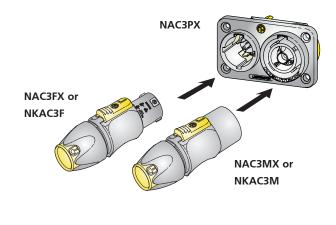


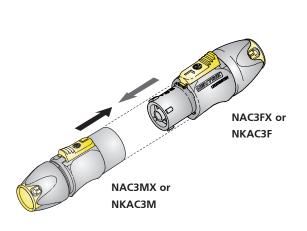


SCDP-* D-Size sealing gaskets, colour coding (*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)

SCNAC-PX Sealing cover duplex IP65

Mating scenarios:











Neutrik hologram



3/16" flat tabs



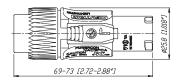
Locking area on chassis connector

powerCON - Locking 3 Pole Power Connectors

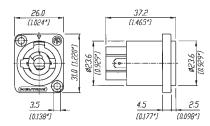


- Lockable 3 pole equipment (AC) connector with contacts for line, neutral and premating safety ground
- High current capacity, rated at 20A / 250V ac
- Colour coded for easy identification, powerCON offers power-in (blue) and power-out (grey) versions with different keying to avoid the possibility of intermating
- Fast and easy locking system
- Extremely robust and reliable
- Excellent cable retention
- UL, cUL recognized components (file no. E 135070)
 VDE certified (Reg. No. 6360),
 SEV approved (No. 96.1 10096)
- New latch design for easier handling and secure locking
- Branded with unique hologram guarantees genuine and authentic Neutrik product
- Coupler for linking cables (couples NAC3FCA to NAC3FCB)

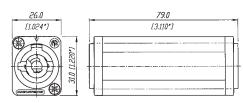
NAC3FCA(B)



NAC3MPA(B)



NAC3MM



Ordering Information

NAC3FCA	Cable connector, quick lock with securing lever, A-type for power inlet, screw terminals
NAC3MPA-1	Air tight chassis connector, A-type for power inlet, flat tab terminals
NAC3FCB	Cable connector, quick lock with securing lever, B-type for power outlet, screw terminals
NAC3MPB-1	Air tight chassis connector, B-type for power outlet, flat tab terminals
NAC3MM-1	Coupler for linking cables (couples NAC3FCA to NAC3FCB)

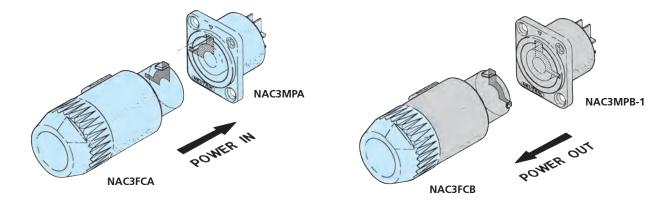
Accessories



NDL	dummyPLUG for powerCON 20 A chassis connector
NLFASTON	FASTON® receptacle for tabs with "positive lock" for use with NL4MP, NL4MPR, NL8MPR, Pack of 100 pcs.
SCL	Plastic sealing cover to protect the connectors against dust and moisture
SCDR	Rear end protection cover for D-size chassis connectors
SCDP-*	D-Size sealing gaskets, colour coding (*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)
SCDX	Hinged cover seals D-size chassis connectors, IP42 rated

KEYWAYS:

With the two non-interchangeable types of connectors (A type and B type) it is impossible to produce a short circuit. Mating connectors (combination) are identified by mechanical keyways and by color.



ATTENTION

The technical data of the powerCON connectors refer to connectors without breaking capacity, meaning connecting devices not to be engaged and disengaged in normal use when live or under load.



Robust metal housing



Screw-type terminals

powerCON 32 A Connectors



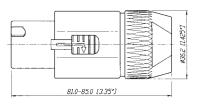
NAC3FC-HC

- Locking single phase AC appliance coupler
- High current capacity (32 A rated)
- Fast and easy locking system
- Excellent cable handling and protection
- Extremely robust and reliable
- 250 V ac, 32 A single-phase (for ambient temperatures up to 35°C)
- Premating contact for protective earth
- Locking system to prevent unintentional disengagement
- Cable O.D. range: 8 20 mm
- Wiring with screw-type terminals for wires 2.5 to 6.0 mm² (AWG 14 10)

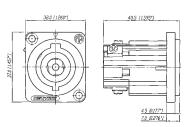


NAC3MP-HC

NAC3FC-HC



NAC3MP-HC



Ordering Information

NAC3FC-HC Cable connector, quick lock with securing lever, screw terminals

NAC3MP-HC Fast and easy locking system, screw-type terminals

Technical Data powerCON

Specification		powerCON TRUE1	powerCON Series	32 A powerCON Series
Electrical				
Number of contacts:	2 + PE	•	•	•
Rated current per contact:		20 A rms ¹⁾	20 A rms	32 A rms
Rated voltage:	250 V ac	•	•	•
Dielectric strength:	4000 V dc	•	•	•
Contact resistance:	≤ 3 mΩ	•	•	•
Insulation resistance after	> 100 MΩ	•	•	•
damp heat test (IEC 68-2-30):				
damp heat test (IEC 68-2-30):				

Mechanical				
Retention method:	Quick lock	•	•	•
Cable O.D. range:		5 - 15 mm	5 - 15 mm	8 - 20 mm
Wiring:	Cable: screw type terminals	•	•	•
		2.5 mm ² / 12 AWG	2.5 mm ² / 14 AWG	2.5-6 mm ² /14-10 AWG
	or soldering	•	•	•
	Chassis: flat tabs for Faston (4.8 x 0.5 mm	n) -	•	•
	(6.35 mm x 0.8 mm	•	-	-
	or soldering	•	•	•
Solderability complies with IE	EC 68-2-20:	•	•	-

Material				
Housing cable connector:		PA 6 30% GR	PA 6 30% GR	PA 6 30% GR
Housing receptacle:		PA 6.6 30% GR	PA 6.6 30% GR	PA 6.6 25% GR
Insert:		PA 6.6 30% GR	PA 6 30% GR	PA 6.6 25% GR
Contacts:	Female:	CuSn0.2	CuZn39Pb3	CuZn39Pb3
	Male:	CuNi1Si0.2	CuNi1Si0.2	CuSn0.2
Contact surface:		2 μm Ag plated	4 μm / 2 μm Ag plated	4 μm Ag
Chuck POM:		•	•	•

Environmental				
Flammability:	UL 94 HB	-	•	plug housing
	UL 94 V-0	•	•*	•*
Temperature range:	-30°C to +80°C	•	•	•
Protection class (mated):		IP 65	IP 20	IP 2X unmated
Safety Requirements EN /	IEC61984:	-	•	•
	IEC 30320:	•	-	-

 $^{^{1)}\,}$: Appliance coupler acc. IEC 60320 limited to 16 A ac

FASTON® is a trademark of AMP Inc.

^{*:} Receptacle





Connector locking

PCB receptacle

nanoCON - 3 Pole Subminiature Connectors







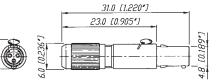
NP3F-H

NSC3F

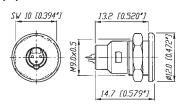
NR3M-S

- World's smallest circular lockable multipole connector
- Robust metal housing with gold plated contacts
- Male and female receptacles for vertical or horizontal PCB mount or solder termination
- Cable connector and receptacle with interchangeable male and female inserts
- Reliable and versatile in applications like medical equipment, control systems, sensors or audio applications such as miniature and wireless microphones and portable mixers
- Pre-mating contact 1

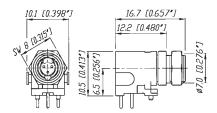
NSC3F(M)



NR3F(M)-S



NP3F(M)-H



M 1:1



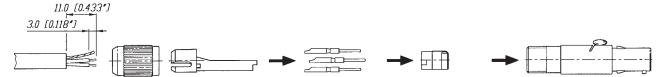
Ordering Information

Female		Male	
NSC3F	Cable connector, chuck principle, solder contacts	NSC3M	Cable connector, chuck principle, solder contacts
	Chassis connector panel mount, solder contacts		Chassis connector panel mount, solder contacts
NP3F-H	Chassis connector horizontal PCB mount	NP3M-H	Chassis connector horizontal PCB mount
NP3F-V	Chassis connector vertical PCB mount	NP3M-V	Chassis connector vertical PCB mount

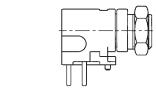
NSC3F



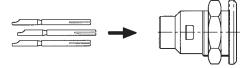
NSC3M



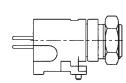




NR3F-S



NP3F-V NP3M-V



NR3M-S



Contact Arrangement

Stecker



Buchse







Push Pull locking

Gold solder contacts

miniCON - 12 Pole Miniature Connectors







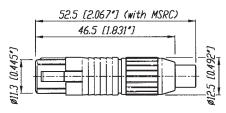
MSCM12

MRF12

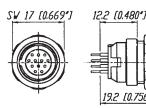
MMC* (modular system)

- Up to 12 pole miniature connector
- Complete set or modular system
- Push-pull self-locking system
- Precisely machined, rugged all metal design
- Fully loaded male and female receptacles for horizontal or vertical PCB mount
- Gold plated contacts, crimp or solder, velour chromium housing
- Special crimp type strain relief establishes an ideal coaxial connection of the cable shield to the connector shell for best EMC shielding
- Easy assembly: contact soldering in disassembled condition avoids awkward wiring of wight density contacts
- Interchangeable insert (male-female)

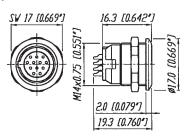
MSCF(M)12 (+MSRC)



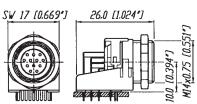
MPF(M)12-V



MRF(M)12



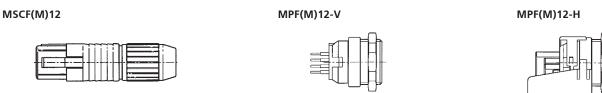
MPF(M)12-H



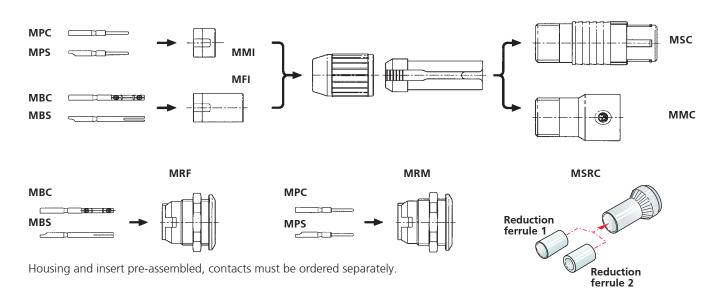
Ordering Information for complete miniCON set

Complete set (consisting of housing, insert, 12 contacts and chuck for cable connector)

Female	Male
MSCF12 Cable connector, chuck principle, solder contacts	MSCM12 Cable connector, chuck principle, solder contacts
MRF12 Receptacle panel mount, solder contacts	MRM12 Receptacle panel mount, solder contacts
MPF12-H Receptacle horizontal PCB mount	MPM12-H Receptacle horizontal PCB mount
MPF12-V Receptacle vertical PCB mount	MPM12-V Receptacle vertical PCB mount



Ordering Information for modular miniCON system



Modular system

Female		Male	
NATI	luceut fou calala consectou	N 4 N 4 I	locard for only comments.
MFI	Insert for cable connector	MMI	Insert for cable connector
MBC	Crimp contacts for cable connector and receptacle	MPC	Crimp contacts for cable connector and receptacle
MBS	Solder contacts for cable connector and receptacle	MPS	Solder contacts for cable connector and receptacle
MRF	Receptacle housing and insert pre-assembled	MRM	Receptacle housing and insert pre-assembled
MMC	Cable connector extension, incl. chuck (for male and female)		
MSC	Cable connector housing, incl. chuck (for male and female)		
MSRC	Set of strain relief crimp version (consisting of crimp f	errule & red	duction ferrule 1 + 2, tools see page 120)





Push Pull locking

All metal housing

neutriCON - Versatile Circular Connectors







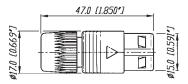
ORP8F-Ni

OSC8F

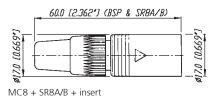
ORP8M

- Complete set or modular system for any desirable configuration
- Contact configuration can be selected from 1 to 8 contacts
- Special crimp type strain relief establishes an ideal circumferential connection of the cable shield to the connector shell as required by best EMC working practice
- Precise and robust all metal housing absorbs vibration forces and protects contact inserts
- Easy, fast and screwless assembly
- Push-pull self-locking system

OSC8F / OSC8M



MODULAR SYSTEM



Polarization

Housing: Two variants of metal polarizing guides (90° and 180°).

Coding 90°



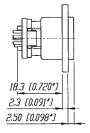


Coding 180°

Insert: The male and female insert can be assembled in all three housings.

ORP8F / ORP8M



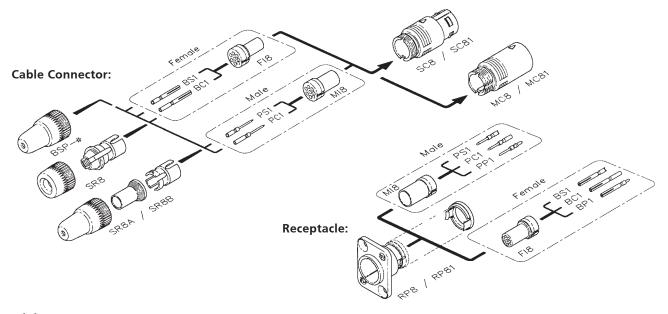


Ordering Information for complete neutriCON set

Complete set (consisting of housing, insert, 8 contacts and chuck for cable connector)

OSC8F	Female cable connector, chuck principle, black housing, solder contacts
OSC8F-Ni	Female cable connector, chuck principle, nickel housing, solder contacts
OSC8M	Male cable connector, chuck principle, black housing, solder contacts
OSC8M-Ni	Male cable connector, chuck principle, nickel housing, solder contacts
ORP8F	Female panel mount receptacle, black housing, solder contacts
ORP8F-Ni	Female panel mount receptacle, nickel housing, solder contacts
ORP8M	Male panel mount receptacle, black housing, solder contacts
ORP8M-Ni	Male panel mount receptacle, nickel housing, solder contacts

Ordering Information for modular neutriCON system



Modular system

Female		Male			
FI8	Insert for cable connector and receptacle	MI8	Insert for cable connector and receptacle		
BS1	Solder contact	PS1	Solder contact		
BC1	Crimp contact	PC1	Crimp contact		
BP1	PCB contact	PP1	PCB contact		
SC8	Cable housing, black coated, 180° coding	MC8	Mating cable housing, black coated, 180° coding		
SC8-Ni	Cable housing, nickel coated, 180° coding	MC8-Ni	Mating cable housing, nickel coated, 180° coding		
SC81	Cable housing, black coated, 90° coding	MC81	Mating cable housing, black coated, 90° coding		
SC81-Ni	Cable housing, nickel coated, 90° coding MC81-Ni Mating cable housing, nickel coated, 90° coding				
SC8W	Cable housing, black coated, 180° coding, waterproof multipin connector according IP54				
RP8	Receptacle, black coated, 180° coding				
RP8-Ni	Receptacle, nickel coated, 180° coding				
RP81	Receptacle, black coated, 90° coding				
RP81-Ni	Receptacle, nickel coated, 90° coding				
SR8	Bushing and chuck type strain relief (standard)				
SR8A	Crimp type strain relief for cable O.D. 3 - 3.8 mm (Hex crimp 5.41 mm acc. IEC 803, see also page 122)				
SR8B	Crimp type strain relief for cable O.D. 6 - 7 mm (Hex crimp 7.01 mm acc. IEC 803, see also page 122)				
SR8W	Bushing and chuck type strain relief for waterproof solution IP54				
BSP-*	Coloured boot, available in 10 resistor colours				
* color codi	ng: 0 - Black, 1- Brown, 2 - Red, 3 - Orange, 4 - Yellow, 5 - Green, 6	5 - Blue, 7 - Vi	olet, 8 - Grey, 9 - White		

Assembly Tools

Crimptool







Crimptool HX-CONTACT

DMC crimptool AFM8 acc. M22520/2-01

MPOS-*

Modified DMC positioner (K155) Contact positioner helds contact in position when crimping.

Contact and connector assembly







Crimptool HX-R-BNC

Neutrik® HEX crimptool

DIE-R-BNC-* Neutrik® DIE's for various HEX sizes.

neutriCON - Ordering Information Assembly Tools

		Cable O.D. / Wire	Crimptool	Die/Positioner	HEX-Size/Standard
SR8A	Strain relief	3 - 3.8 mm	HX-R-BNC	DIE-R-BNC-PJ	5.41 mm / IEC 803
SR8B	Strain relief	6 - 7 mm	HX-R-BNC	DIE-R-BNC-PS	7.01 mm / IEC 803
BC1	Female crimp contact	AWG 22 -26	HX-CONTACT	MPOS-BC1	No. 5 / M22520/2-01
PC1	Male crimp contact	AWG 22 -26	HX-CONTACT	MPOS-PC1	No. 5 / M22520/2-01

miniCON - Ordering Information Assembly Tools

		Cable O.D. / Wire	Crimptool	Die/Positioner	HEX-Size/Standard
MSRC	Crimp ferrule only	4.5 - 6 mm	HX-R-BNC	DIE-R-BNC-PDC*	6.47 mm / IEC 803
MSRC	Crimp ferrule & reduction ferrule 1	3.3 - 4.4 mm	HX-R-BNC	DIE-R-BNC-PDC*	6.47 mm / IEC 803
MSRC	Crimp ferrule & reduction ferrule 2	2.5 - 3.2 mm	HX-R-BNC	DIE-R-BNC-PDC*	6.47 mm / IEC 803
MBC	Female crimp contact	24 AWG/0.22 mm ²	HX-CONTACT	MPOS-MBC	No. 5 / M22520/2-01
MPC	Male crimp contact	24 AWG/0.22 mm ²	HX-CONTACT	MPOS-MPC	No. 5 / M22520/2-01

^{*:} DIE-R-BNC-PJ or PS also possible

Technical Data

Specification	nano CON Series	miniCON Series	neutriCON Series
Electrical			
Number of contacts:	3	12 (1-12 modular system)	8 (1-8 modular system)
Rated current per contact:	2 A		5 A (solder), 5 A (crimp)
Rated voltage:	50 V ac	50 V ac	50 V ac
Dielectric strength:	1000 V dc	1000 V dc	1500 Vdc
Contact resistance:	≤ 12 mΩ	≤ 8 mΩ	≤ 5 mΩ
Insulation resistance after	> 1 GΩ	> 500 MΩ	> 500 MΩ
damp heat test (IEC 68-2-30):			
Mechanical			
Retention method:	latch	Push-pull	Push-pull
Cable O.D. range:	3.4 mm max.	3 - 5 mm (grey chuck)	3 - 7 mm
		5 - 7 mm (white chuck)	3 - 3.8 mm (SR8A)
		2.5 - 6 mm	6 - 7 mm (SR8B)
		(crimp version MSRC)	
Wiring:	0.2 mm ² / 24 AWG	0.5 mm ² / 20 AWG	1.0 mm ² / 18 AWG
	for solid wire	for solder	for solder
	0.14 mm ²	0.22 mm ²	0.14 - 0.34 mm ²
	26 AWG	24 AWG	22 - 26 AWG
Caldanability as mulion with IEC CO 2 20.	for stranded wire	for crimp	for crimp
Solderability complies with IEC 68-2-20:	for stranded wire	for crimp ●	for crimp •
Solderability complies with IEC 68-2-20: Material	for stranded wire	for crimp ●	for crimp •
	•	• ZnAl4Cu1 / CuZn39Pb.	• TnAl4Cu1
Material Housing cable connector:	◆ CuSn4Pb4Zn4 Z	• ZnAl4Cu1 / CuZn39Pb.	• TnAl4Cu1 gal Ni or black chrome
Material Housing cable connector:	•	• ZnAl4Cu1 / CuZn39Pb. ZnAl4Cu1	● 3 ZnAl4Cu1 gal Ni or black chrome ZnAl4Cu1,
M a t e r i a l Housing cable connector: Housing receptacle:	€ CuSn4Pb4Zn4 Z CuZn39Pb2	• ZnAl4Cu1 / CuZn39Pb ZnAl4Cu1	3 ZnAl4Cu1 gal Ni or black chrome ZnAl4Cu1, gal Ni or black chrome
Material Housing cable connector: Housing receptacle: Insert:	€ CuSn4Pb4Zn4 Z CuZn39Pb2 PETP	• ZnAl4Cu1 / CuZn39Pb ZnAl4Cu1 PA 6.6	3 ZnAl4Cu1 gal Ni or black chrome ZnAl4Cu1, gal Ni or black chrome PBTP 15% GR
Material Housing cable connector: Housing receptacle: Insert:	€ CuSn4Pb4Zn4 Z CuZn39Pb2	• ZnAl4Cu1 / CuZn39Pb ZnAl4Cu1	3 ZnAl4Cu1 gal Ni or black chrome ZnAl4Cu1, gal Ni or black chrome
Material Housing cable connector: Housing receptacle: Insert: Contacts:	€ CuSn4Pb4Zn4 Z CuZn39Pb2 PETP CuZn35Pb2	▼ ZnAl4Cu1 / CuZn39Pb. ZnAl4Cu1 PA 6.6 CuZn35Pb2 (solder) CuZn39Pb3 (crimp) CuSn6	3 ZnAl4Cu1 gal Ni or black chrome ZnAl4Cu1, gal Ni or black chrome PBTP 15% GR CuZn35Pb2 (solder) CuZn39Pb3 (crimp)
Material Housing cable connector: Housing receptacle: Insert: Contacts:	€ CuSn4Pb4Zn4 Z CuZn39Pb2 PETP	▼ ZnAl4Cu1 / CuZn39Pb. ZnAl4Cu1 PA 6.6 CuZn35Pb2 (solder) CuZn39Pb3 (crimp)	3 ZnAl4Cu1 gal Ni or black chrome ZnAl4Cu1, gal Ni or black chrome PBTP 15% GR CuZn35Pb2 (solder) CuZn39Pb3 (crimp) 0.3 µm Au hard
Material Housing cable connector: Housing receptacle: Insert: Contacts:	CuSn4Pb4Zn4 Z CuZn39Pb2 PETP CuZn35Pb2 0.5 μm Au	▼ ZnAl4Cu1 / CuZn39Pb. ZnAl4Cu1 PA 6.6 CuZn35Pb2 (solder) CuZn39Pb3 (crimp) CuSn6 0.2 μm AuCo	3 ZnAl4Cu1 gal Ni or black chrome ZnAl4Cu1, gal Ni or black chrome PBTP 15% GR CuZn35Pb2 (solder) CuZn39Pb3 (crimp) 0.3 µm Au hard alloy over 2 µm Ni
Material Housing cable connector: Housing receptacle: Insert:	€ CuSn4Pb4Zn4 Z CuZn39Pb2 PETP CuZn35Pb2	▼ ZnAl4Cu1 / CuZn39Pb. ZnAl4Cu1 PA 6.6 CuZn35Pb2 (solder) CuZn39Pb3 (crimp) CuSn6	3 ZnAl4Cu1 gal Ni or black chrome ZnAl4Cu1, gal Ni or black chrome PBTP 15% GR CuZn35Pb2 (solder) CuZn39Pb3 (crimp) 0.3 µm Au hard
Material Housing cable connector: Housing receptacle: Insert: Contacts: Contact surface: Chuck POM:	CuSn4Pb4Zn4 Z CuZn39Pb2 PETP CuZn35Pb2 0.5 μm Au	▼ ZnAl4Cu1 / CuZn39Pb. ZnAl4Cu1 PA 6.6 CuZn35Pb2 (solder) CuZn39Pb3 (crimp) CuSn6 0.2 μm AuCo	3 ZnAl4Cu1 gal Ni or black chrome ZnAl4Cu1, gal Ni or black chrome PBTP 15% GR CuZn35Pb2 (solder) CuZn39Pb3 (crimp) 0.3 µm Au hard alloy over 2 µm Ni
Material Housing cable connector: Housing receptacle: Insert: Contacts: Contact surface: Chuck POM: Environmental Flammability UL 94 HB:	CuSn4Pb4Zn4 Z CuZn39Pb2 PETP CuZn35Pb2 0.5 μm Au	▼ ZnAl4Cu1 / CuZn39Pb. ZnAl4Cu1 PA 6.6 CuZn35Pb2 (solder) CuZn39Pb3 (crimp) CuSn6 0.2 μm AuCo	3 ZnAl4Cu1 gal Ni or black chrome ZnAl4Cu1, gal Ni or black chrome PBTP 15% GR CuZn35Pb2 (solder) CuZn39Pb3 (crimp) 0.3 µm Au hard alloy over 2 µm Ni
Material Housing cable connector: Housing receptacle: Insert: Contacts: Contact surface: Chuck POM: Environmental Flammability UL 94 HB: Flammability UL 94 V-0:	CuSn4Pb4Zn4 Z CuZn39Pb2 PETP CuZn35Pb2 0.5 μm Au	PA 6.6 CuZn39Pb3 ZnAl4Cu1 PA 6.6 CuZn35Pb2 (solder) CuZn39Pb3 (crimp) CuSn6 0.2 μm AuCo	3 ZnAl4Cu1 gal Ni or black chrome ZnAl4Cu1, gal Ni or black chrome PBTP 15% GR CuZn35Pb2 (solder) CuZn39Pb3 (crimp) 0.3 μm Au hard alloy over 2 μm Ni
Material Housing cable connector: Housing receptacle: Insert: Contacts: Contact surface: Chuck POM: Environmental Flammability UL 94 HB: Flammability UL 94 V-0: Temperature range: -30°C to +80°C	CuSn4Pb4Zn4 Z CuZn39Pb2 PETP CuZn35Pb2 0.5 µm Au	TnAl4Cu1 / CuZn39Pb. ZnAl4Cu1 PA 6.6 CuZn35Pb2 (solder) CuZn39Pb3 (crimp) CuSn6 0.2 µm AuCo	3 ZnAl4Cu1 gal Ni or black chrome ZnAl4Cu1, gal Ni or black chrome PBTP 15% GR CuZn35Pb2 (solder) CuZn39Pb3 (crimp) 0.3 µm Au hard alloy over 2 µm Ni
Material Housing cable connector: Housing receptacle: Insert: Contacts: Contact surface: Chuck POM: Environmental Flammability UL 94 HB: Flammability UL 94 V-0:	CuSn4Pb4Zn4 Z CuZn39Pb2 PETP CuZn35Pb2 0.5 µm Au •	PA 6.6 CuZn39Pb3 CuZn35Pb2 (solder) CuZn39Pb3 (crimp) CuSn6 0.2 μm AuCo -	3 ZnAl4Cu1 gal Ni or black chrome ZnAl4Cu1, gal Ni or black chrome PBTP 15% GR CuZn35Pb2 (solder) CuZn39Pb3 (crimp) 0.3 µm Au hard alloy over 2 µm Ni

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