Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

7962A Multi-Conductor - Category 5e DataTuff® 5 Million Flex Quad Cables



For more Information please call

1-800-Belden1



General Description:

22 AWG Symmetric quad stranded tinned copper conductors, polyolefin insulation, FRPE bedding, industrial grade sunlight- and oil-resistant TPE jacket, rip cord. Sequential marking at two foot intervals. PROFINET Type C trailing cable for continuous flex applications

Usage (Overall)	
Suitable Applications:	Industrial Ethernet Cable, Harsh Environments, Category 5e, ProfiNet, 100BaseTX, CMX - Outdoor, PLTC Listed, Approved for Cable Tray Use in Class 1, Division 2, Hazardous Areas and Non-hazardous Areas, Cable Trays, Raceways, Conduit and Supported by Messenger Wires, Approved for Outdoor Usage
Physical Characteristics (Overall)	
Conductor AWG:	
# Conductors AWG Stranding Conductor Material Dia. (in.) 4 22 19x34 TC - Tinned Copper 0.028	
Total Number of Conductors:	4
Insulation Insulation Material: Insulation Material Dia. (In.) PO - Polyolefin 0.064	
Inner Jacket	
Inner Jacket Material: Inner Jacket Material Nom. Dia. (in.) FRPE 0.167	
Outer Shield Outer Shield Material:	
Layer # Outer Shield Trade Name Type Outer Shield Material	Coverage (%)
1 Beldfoil® Tape Aluminum Foil - Polyester 2 Braid	Tape 100.000 85.000
Outer Jacket Outer Jacket Material:	
Outer Jacket Material Industrial Grade TPE - Thermo Plastic Elestomer	
Overall Cable	
Overall Nominal Diameter:	0.276 in.
Pair .	
Pair Color Code Chart: Number Color 1 White 2 Blue 3 Yellow	
4 Orange	
Mechanical Characteristics (Overall)	
Storage Temperature Range:	-40°C To +80°C
Installation Temperature Range:	-20°C To +60°C
Operating Temperature Range:	-40°C To +80°C
Bulk Cable Weight:	46 lbs/1000 ft.
Max. Recommended Pulling Tension:	55 lbs.
Min. Bend Radius/Minor Axis:	2.560 in.

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NEC/(UL) Specification:	CM, CMX-Outdoor, ITC, PLTC
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 20626 (600V 80°C)
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Telecommunications Standards:	Category 5e - TIA 568.C.2
Other Specification:	Oil Res I, Oil Res 60811-2-1, Weldspatter Resistant
ame Test	
UL Flame Test:	UL1666 Vertical Tray
C(UL) Flame Test:	FT1
litability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes
Oil Resistance:	Yes
enum/Non-Plenum	
Plenum (Y/N):	No
ectrical Characteristics (Overall)	
m. Capacitance Conductor to Shield:	
Capacitance (pF/ft)	
15	
Maximum Capacitance Unbalance (pF/100 m):	66
minal Velocity of Propagation: VP (%)	
70	
aximum Delay:	
Delay (ns/100 m)	
552.000	
aximum Conductor DC Resistance: DCR @ 20°C (Ohm/100 m)	
5.700	
ax. Operating Voltage - UL:	
Voltage	
300 V RMS	
aximum DCR Unbalanced:	

Electrical Characteristics-Premise (Overall) Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. ACR (dB)	Min RL (dB)
1	2.100	65.3	63.2	23.000
4	4.000	56.3	52.3	23.000
10	6.300	50.3	43.9	25.000
16	8.000	47.2	39.1	25.000
20	9.000	45.8	35.2	25.000
31.25	11.400	42.9	31.3	23.600

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62.5	16.500	38.4	21.6	21.500
100	21.300	35.3	17.1	20.100

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ACRF (dB)
1	100 ± 20.2	105 ± 10	64.0
4	100 ± 14.2	100 ± 10	52.0
10	100 ± 11.3	100 ± 10	44.0
16	100 ± 11.3	100 ± 10	39.9
20	100 ± 11.3	100 ± 10	38.0
31.25	100 ± 13.2	100 ± 10	34.1
62.5	100 ± 16.9	100 ± 10	28.1
100	100 ± 20.0	100 ± 10	24.0

Notes (Overall)

Notes: Operating temperatures are subject to length de-rating. Cable passes -40C Cold Bend per UL 1581. Limits below 4 MHz are for information only.

Notes (Cont'd.):

T568A Plug Compatible Part Number: R301601 T568B Plug Compatible Part Number: R301602

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7962A 1SW1000	1,000 FT	49.000 LB	GREEN, RAL 6018		PROFINET TYPE C TRAILING CABLE
7962A 1SW2000	2,000 FT	98.000 LB	GREEN, RAL 6018		PROFINET TYPE C TRAILING CABLE

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