



Product: <u>7962A</u> ☑

DataTuff® 5e, Quad (2 Pr) #22 Str TC, PO Ins, OS+TC Brd, TPE Jkt, CM CMX-Outdoor

Request Sample
Requ

Product Description

Industrial Ethernet Cat 5e, Quad (2 Pair) 22AWG (19x34) Tinned Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, TPE Outer Jacket, CM CMX-Outdoor

Technical Specifications

Product Overview

Suitable Applications: PROFINET, outdoor, harsh environment, IIoT, factory or process automation, IP cameras and devices, data communication, etc.

Physical Characteristics (Overall)

Conductor

AWG	Stranding		Material	No. of Quads
22	19x34	TC -	Tinned Copper	1
Total Number of Pairs:		2		

Insulation



Inner Jacket Material

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	
Tape	Alum / Poly	Beldfoil®	100%	
Braid	Tinned Copper (TC)		85%	

Outer Jacket Material

Material	Nominal Diameter
TPE - Thermoplastic Elastomer	0.272 in

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. DCR Unbalance
5.7 Ohm/1000ft	3 %

Capacitance

Max. Capacitance Unbalance	Nom.Mutual Capacitance
150 pF/ft	15 pF/ft

Delay

Max. Delay	Nominal Velocity of Propagation (VP) [%]
552 ns/100m	70%

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1 MHz	2.1 dB/100m	65.3 dB	62.3 dB	63.2 dB	63.8 dB	60.8 dB	23 dB	100 ± 20.2 Ohm	105 ±10 Ohm
4 MHz	4.0 dB/100m	56.3 dB	53.3 dB	56.3 dB	51.7 dB	48.7 dB	23 dB	100 ± 14.2 Ohm	100 ±10 Ohm
8 MHz	5.6 dB/100m	51.8 dB	48.8 dB	46.2 dB	45.7 dB	42.7 dB	23 dB	100 ± 11.3 Ohm	100 ±10 Ohm
10 MHz	6.3 dB/100m	50.3 dB	47.3 dB	43.9 dB	43.8 dB	40.8 dB	25 dB	100 ± 11.3 Ohm	100 ±10 Ohm
16 MHz	8.0 dB/100m	47.3 dB	44.3 dB	35.2 dB	39.7 dB	36.7 dB	25 dB	100 ± 11.3 Ohm	100 ±10 Ohm
20 MHz	9.0 dB/100m	45.8 dB	42.8 dB	36.5 dB	37.7 dB	34.7 dB	25 dB	100 ± 11.3 Ohm	100 ±10 Ohm
25 MHz	10.1 dB/100m	44.3 dB	41.3 dB	34.2 dB	35.8 dB	32.8 dB	25.5 dB	100 ± 11.3 Ohm	100 ±10 Ohm
31.25 MHz	11.4 dB/100m	42.9 dB	39.9 dB	31.3 dB	33.9 dB	30.9 dB	23.6 dB	100 ± 13.2 Ohm	100 ±10 Ohm
62.5 MHz	16.5 dB/100m	38.4 dB	35.4 dB	21.6 dB	27.8 dB	24.8 dB	21.5 dB	100 ± 16.9 Ohm	100 ±10 Ohm
100 MHz	21.3 dB/100m	35.3 dB	32.3 dB	17.1 dB	23.8 dB	20.8 dB	20.1 dB	100 ± 20.0 Ohm	100 ±10 Ohm

Voltage

UL Voltage Rating 600V

Temperature Range

Installation Temp Range:	-20°C To +60°C
UL Temp Rating:	75°C
Storage Temp Range:	-40°C To +80°C
Operating Temp Range:	-40°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	46 lbs/1000ft
Max. Pull Tension:	55 lbs
Min Bend Radius/Minor Axis:	2.560 in

Standards

NEC/(UL) Compliance:	CMG, CMX-Outdoor, ITC, PLTC
CEC/C(UL) Compliance:	CMG
IEC Compliance:	ISO/IEC 11801 Ed. 2.0:2002/A2:2010/C1:2011
TIA/EIA Compliance:	NEMA WC-63.1 Category 5e
Other Compliance:	Oil Res II, Oil Res 60811-2-1, Weldsplatter Resistant

Applicable Environmental and Other Programs

Environmental Space:	Indoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2015/863/EU:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 Vertical Tray Flame Test
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	600 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

Item #	Color	Putup Type	Length	UPC/EAN
7962A.00305	Green	Reel	305 m	8719605016812
7962A.00610	Green	Reel	610 m	8719605016829
7962A 1SW1000	Green, RAL 6018			612825367024
7962A 1SW2000	Green, RAL 6018			612825367031

Patent: https://www.belden.com/resources/patents

Product Notes

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

History

Update and Revision:	Revision Number: 0.213 Revision Date: 04-28-2020

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