



Product: [7961A](#)

DataTuff® Cat 5e, 1 Quad (2 Pr) #22 Str TC, PO Ins, OS+TC Brd, PVC Jkt, CMG CMX-Outdoor

Request Sample

Product Description

Industrial Ethernet Cat 5e, 1 Quad (2 Pair) 22AWG (7x30) Tinned copper, PO Insulation , Overall Belfoil®+Tinned Copper Braid(85%) Shield, PVC Outer Jacket, CMG 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	7x30	TC - Tinned Copper	1

Conductor Count:

4

Total Number of Pairs:

2

Insulation

Material
Polyolefin

Bonded-Pair:

No

Inner Jacket Material

Material	Nominal Diameter
PE - Polyethylene	0.164 in

Table Notes:

Flame Retardant

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
PVC - Polyvinyl Chloride	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
300 V RMS

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	42.6 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 2.1 (2008) Class D
CPR Euroclass:	Eca
Data Category:	Category 5e
TIA/EIA Compliance:	NEMA WC-63.1 Category 5e

Applicable Environmental and Other Programs

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, LSOH, Toxicity Testing

UL Flammability:	UL1685 Vertical Tray Flame Test
CSA Flammability:	FT4
IEC Flammability:	IEC 60332-1-2
IEEE Flammability:	1202
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Part Number

Variants

Item #	Color	Putup Type	Length	UPC/EAN
7961A.00305	Green	Reel	305 m	8719605016799
7961A.00610	Green	Reel	610 m	8719605016805
7961A 1SW1000	Green, RAL 6018			612825367314
7961A 1SW2000	Green, RAL 6018			612825367321

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: 0.210 Revision Date: 06-17-2020
----------------------	--

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.