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SENDING ALL THE RIGHT SIGNALS



Part Number: 127903A

DataTuff® 5e, 4Pr #22 Sol BC, PO Ins, OS, PVC Jkt, AIA Armor, PVC Jkt, PLTC CMR

Product Description

Industrial Ethernet Cat 5e, 4 Pair 22AWG (Solid) Bare Copper, PO Insulation, Overall Beldfoil® Shield, PVC Inner Jacket, Aluminum Interlock Armor, PVC Outer Jacket, PLTC CMR

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	Solid	BC - Bare Copper	0.026 in	4

Conductor Count:	8
Total Number of Pairs:	4

Insulation

Material
PO - Polyolefin

Color Chart

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Inner Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
Industrial Grade PVC - Polyvinyl Chloride	0.335 in	0.043 in

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100.0 %	TC - Tinned Copper	22

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
Industrial Grade PVC - Polyvinyl Chloride	0.655 in	0.045 in

Construction and Dimensions

Armor

Type of Armor	Material	Diameter over Armoring
Interlocked Armor	Aluminum	0.565 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR

9 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor
15 pF/ft

Delay

Nominal Velocity of Propagation (VP) [%]
70.0 %

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
1 MHz	2 dB/100m
4 MHz	4.1 dB/100m
8 MHz	5.8 dB/100m
10 MHz	6.5 dB/100m
16 MHz	8.2 dB/100m
20 MHz	9.3 dB/100m
25 MHz	10.4 dB/100m
31.25 MHz	11.7 dB/100m
62.5 MHz	17 dB/100m
100 MHz	22 dB/100m
	28.1 dB/100m
	32 dB/100m
	36.9 dB/100m
	41.0 dB/100m
	41.8 dB/100m
	44.9 dB/100m

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Installation Temp Range:	-25°C To +75°C
UL Temp Rating:	75°C
Storage Temp Range:	-25°C To +75°C
Operating Temp Range:	-40°C To +75°C

Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Max Recommended Pulling Tension:	200 lbs
Min Bend Radius/Minor Axis:	7.86 in

Standards

NEC/(UL) Specification:	CMR, PLTC
CEC/C(UL) Specification:	CMR
Data Category:	Category 5e

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-04
CA Prop 65 (CJ for Wire & Cable):	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1666 Riser
CSA Flammability:	FT4

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

Item #	UPC
127903A 0101000	612825439073
127903A 0105000	612825439080

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

History

Update and Revision:	Revision Number: 0.16 Revision Date: 08-22-2019

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