Product: AV2183R

4K UHD Media Patch Cord CMR



Product Description

4K UHD Media Patch Cord, Shielded 4 Pair, 23 AWG Solid, CMR, T568A/B-T568A/B (cable 2183R)

Technical Specifications

Product Overview

Suitable Applications:	HDBaseT, Full 5-Play, 4K (UHD/DCI), POH, POE.

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
23	Solid	BC - Bare Copper	4

Total Number of Pairs:	4

Insulation

Material
PP - Polypropylene

Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	26

Outer Shield Table Notes:	Drain wire applied helically for added flexibility

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	.290 in.

Wiring Scheme:	T568A/B-T568A/B
Packaging:	Individually packaged in a clear plastic bag.

Connectors

Materials

Description	Material	Type
Plug	Polycarbonate	RJ45
Boot	Polycarbonate	
Front Connection	Phosphor Bronze with 50u inch Gold over Nickel Plating	Blades

Electrical Characteristics

Dielectric Strength:	1,000 V RMS @ 60 Hz for 1 minute
Current Rating:	1.500 A
Insulation Resistance:	500 M-Ohm Minimum
Max Contact Resistance:	20 mOhm

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)

1 MHz	2.000 dB/100m
4 MHz	3.800 dB/100m
8 MHz	4.300 dB/100m
10 MHz	5.900 dB/100m
16 MHz	7.500 dB/100m
20 MHz	8.300 dB/100m
25 MHz	9.300 dB/100m
62.500 MHz	14.800 dB/100m
31.250 MHz	10.400 dB/100m
100 MHz	18.800 dB/100m
125 MHz	21.000 dB/100m
155 MHz	23.000 dB/100m
175 MHz	24.900 dB/100m
200 MHz	26.600 dB/100m
250 MHz	29.800 dB/100m
300 MHz	32.700 dB/100m
400 MHz	37.900 dB/100m
500 MHz	42.500 dB/100m

Temperature Range

Installation Temperature Range:	-10°C To +60°C
Storage Temperature Range:	-40°C To +70°C
Operating Temperature Range:	-10°C To +60°C

Mechanical Characteristics

Maximum Recommended Pulling Tension:	11.250 lbs
Min Bend Radius (Overall Cable):	2.200 in.
Plug /Jack Compatibility:	RJ45

Termination Interface

Termination	Connection	Durabilities
RJ45	Mated Connection	750 Cycles

Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMR
UL Rating:	Riser
Other Standards:	FCC Part 68, Subpart F, IEC 60603-7

Applicable Environmental and Other Programs

EU Directive 2002/95/EC (RoHS):	Yes
MII Order #39 (China RoHS):	EUP 50

Suitability

Suitability - Indoor:	Yes

Flammability, LS0H, Toxicity Testing

Safety Listing:	c(UL)us Listed

Related Part Numbers

Variants

Item #	Color	Length
AV2183R100005	Black	5 ft
AV2183R100007	Black	7 ft
AV2183R100017	Black	17 ft
AV2183R100050	Black	50 ft
AV2183R106005	Blue, Light	5 ft
AV2183R106007	Blue, Light	7 ft
AV2183R106017	Blue, Light	17 ft
AV2183R106050	Blue, Light	50 ft

Product Notes

Labeling:	Belden Part Number, Performance Acronym, Wiring Scheme and Cord Length.

History

Update and Revision:	Revision Number: 0.67 Revision Date: 05-10-2023

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