

## 2183R Multi-Conductor - HDBaseT Shielded Bonded-Pair Cable



For more Information  
please call

1-800-Belden1

**General Description:**

4-Pair, F/UTP O/A Foil Shielded, Riser CMR-LP (0.6A), 23 AWG Solid Bare Copper Conductors, Helical TC Drain, Solid Polyolefin Insulation, Corrugated Flex Shield, Rip Cord, PVC Jacket

**Usage (Overall)**

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

**Physical Characteristics (Overall)****Conductor**

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	23	Solid	BC - Bare Copper

Total Number of Conductors: 8

**Insulation**

Insulation Material:

Insulation Material
Polyolefin

**Outer Shield**

Outer Shield Material:

Outer Shield Material
Corrugated flex shield / Mylar foil & helical drain wire

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (in.)
0.290

Outer Jacket Ripcord: Yes

**Pair**

Pair Color Code Chart:

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

**Mechanical Characteristics (Overall)**

Storage Temperature Range: -20°C To +75°C

Installation Temperature Range: 0°C To +75°C

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 90C

Bulk Cable Weight: 37 lbs/1000 ft.

Max. Recommended Pulling Tension: 45 lbs.

Min. Bend Radius/Minor Axis: 1.200 in.

Min. Bend/Installation: 2.300 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC(UL) Specification: CMR

## 2183R Multi-Conductor - HDBaseT Shielded Bonded-Pair Cable

NEC Articles: 800

CEC/C(UL) Specification: CMR

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: 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

MIL Order #39 (China RoHS): Yes

## Applicable Patents:

Patent

[www.belden.com/p](http://www.belden.com/p)

## Flame Test

UL Flame Test: UL1666 Riser

C(UL) Flame Test: FT4

CSA Flame Test: FT4

## Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: No

Suitability - Burial: No

## Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 2183P

## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

Impedance (Ohm)

100.000

## Nom. Mutual Capacitance:

Capacitance (pF/ft)

15.000

Maximum Capacitance Unbalance (pF/100 m): 330

## Nominal Velocity of Propagation:

VP (%)

72.000

## Maximum Delay:

Delay (ns/100 m)

538 @ 100MHz

## Max. Delay Skew:

Delay Skew (ns/100 m)

45

## Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)

9.38

## Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 m)

1.000 2.000

4.000 3.800

8.000 4.300

10.000 5.900

16.000 7.500

20.000 8.300

25.000 9.300

31.200 10.400

62.500 14.800

## 2183R Multi-Conductor - HDBaseT Shielded Bonded-Pair Cable

100.000	18.800
125.000	21.000
155.000	23.000
175.000	24.900
200.000	26.600
250.000	29.800
300.000	32.700
400.000	37.900
450.000	40.200
500.000	42.500

## Max. Operating Voltage - UL:

## Voltage

300 V RMS

## Maximum DCR Unbalanced:

## DCR Unbalance @ 20°C (%)

3

## Notes (Overall)

**Notes:** Compliant with TIA/EIA-568C.2. Put-Ups BLACK 1000 & A1000, BLUE A1000, WHITE A1000

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
2183R 006A1000	1,000 FT	43.000 LB	BLUE, LIGHT		4 PR #23 PO FS PVC
2183R 009A1000	1,000 FT	43.000 LB	WHITE		4 PR #23 PO FS PVC
2183R 010A1000	1,000 FT	43.000 LB	BLACK		4 PR #23 PO FS PVC
2183R 010I1000	1,000 FT	42.000 LB	BLACK		4 PR #23 PO FS PVC

Revision Number: 0 Revision Date: 02-01-2017

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