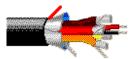
#### **METRIC MEASUREMENT VERSION**



### 1823R Multi-Conductor - CMR Rated Cable



For more Information please call

1-800-Belden1



### **General Description:**

22 AWG stranded (7x30) TC conductor, polyolefin insulation, individually shielded with bonded Beldfoil®, numbered/color-coded PVC jackets, jackets and shields are bonded so both strip simultaneously, overall black PVC jacket and nylon rip cord.

### **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>	Dia. (mm)
32	22	7x30	TC - Tinned Copper	0.762

Total Number of Conductors: 64

#### Insulation

#### **Insulation Material:**

Insulation Material	Dia. (mm)
PO - Polyolefin	1.270

#### **Inner Shield**

#### Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

#### Inner Shield Drain Wire AWG:



Inner Shield Drain Wire Stranding: 7x30

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### **Inner Jacket**

#### Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	3.378

### **Inner Jacket Color Code Chart:**

Number Color				
1	Brown			
2	Red			
3	Orange			
4	Yellow			
5	Green			
6	Blue			
7	Purple			
8	Gray			
9	White			
10	Black			
11	Tan			
12	Pink			
13	Gray/Brown			
14	Gray/Red			
15	Gray/Orange			

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### METRIC MEASUREMENT VERSION



### 1823R Multi-Conductor - CMR Rated Cable

16	Gray/Yellow
17	Gray/Green
18	Gray/Blue
19	Gray/Purple
20	Gray/Gray
21	Gray/White
22	Gray/Black
23	Gray/Tan
24	Gray/Pink
25	Blue/Brown
26	Blue/Red
27	Blue/Orange
28	Blue/Yellow
29	Blue/Green
30	Blue/Blue
31	Blue/Purple
32	Blue/Gray

### **Outer Shield**

#### **Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

#### **Outer Shield Drain Wire AWG:**

AWG Stranding		Drain Wire Conductor Material		
18	19x30	TC - Tinned Copper		

#### **Outer Jacket**

**Outer Jacket Material:** 

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

### **Overall Cable**

Overall Nominal Diameter: 27.229 mm

#### Pair

### Pair Color Code Chart:

Color Red and Black

### **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +60°C
Bulk Cable Weight:	930.125 Kg/Km
Max. Recommended Pulling Tension:	3995.820 N
Min. Bend Radius/Minor Axis:	254 mm

### **Applicable Specifications and Agency Compliance (Overall)**

### **Applicable Standards & Environmental Programs**

EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/95/EC (RoHS):	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU CE Mark:	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
CEC/C(UL) Specification:	CMG
NEC/(UL) Specification:	CMR

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METRIC MEASUREMENT VERSION



#### 1823R Multi-Conductor - CMR Rated Cable

EU Directive 2002/96/EC (WEEE):	Yes		
EU Directive 2003/11/EC (BFR):	Yes		
CA Prop 65 (CJ for Wire & Cable):	Yes		
MII Order #39 (China RoHS):	Yes		
Flame Test			
CSA Flame Test:	FT4		
Plenum/Non-Plenum			
Plenum (Y/N):	No		

### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm) 50

Nom. Inductance:

Inductance (µH/m) 0.59058

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 101.711

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 183.736

**Nominal Velocity of Propagation:** 

**VP (%)** 66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 48.5588

Ind. Pair Nominal Shield DC Resistance @ 20

Deg. C:

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current
1.45 Amps per conductor @ 25°C

### **Notes (Overall)**

Notes: Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment.

### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1823R 0101000	305 MT	315.248 KG	BLACK	С	32 #22 FS PR PVC FS PVC
1823R 0102000	610 MT	643.197 KG	BLACK	С	32 #22 FS PR PVC FS PVC

46.262 Ohm/km

### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 10-17-2012

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Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications

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#### METRIC MEASUREMENT VERSION



#### 1823R Multi-Conductor - CMR Rated Cable

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

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