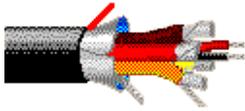


For more Information  
please call

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	Conductor Material	Dia. (mm)
6	22	7x30	TC - Tinned Copper	0.762

Total Number of Conductors: 12

#### Insulation

##### Insulation Material:

Insulation Material	Dia. (mm)
PO - Polyolefin	1.27

#### 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:

AWG
22

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	3.3782

#### 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 Cabling Color Code Chart:

Number	Color
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue

Overall Nominal Diameter: 11.735 mm

### Pair

Pair Color Code Chart:

Color
Red & Black

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +60°C
Bulk Cable Weight:	178.584 Kg/Km
Max. Recommended Pulling Tension:	838.486 N
Min. Bend Radius/Minor Axis:	116.840 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
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
MII Order #39 (China RoHS):	Yes

#### Flame Test

UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4

#### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	1816P

### 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

METRIC MEASUREMENT VERSION

## 1816R Multi-Conductor - CMR Rated Cable

### 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

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)  
38.7158

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 46.262 Ohm/km

### 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. Beldfoil® provides high reliability with ease of termination.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1816R 0101000	305 MT	58.060 KG	BLACK	C	6 #22 FS PR PVC FS PVC
1816R 010500	152 MT	29.484 KG	BLACK	C	6 #22 FS PR PVC FS PVC

**Notes:**  
C = CRATE REEL PUT-UP.

Revision Number: 1    Revision Date: 09-19-2012

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