**ENGLISH MEASUREMENT VERSION** 



### 1416R Multi-Conductor - CMR Rated Cable





For more Information please call

1-800-Belden1



## **Description:**

24 AWG stranded (7x30) TC conductor, polyolefin insulation, individually shielded Beldfoil® (100% coverage) numbered/color-coded PVC jackets, jackets and shields bonded to strip simultaneously, overall Beldfoil shield and 18 AWG TC drain wire.

## **Physical Characteristics (Overall)**

### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
32	24	7x32	TC - Tinned Copper	.024

#### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
PO - Polyolefin	.040

#### **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** 24

Inner Shield Drain Wire Stranding: 7x32

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

### **Inner Jacket**

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (in.)
PVC - Polyvinyl Chloride	.111

#### **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	7x26	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:** 





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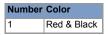
## 1416R Multi-Conductor - CMR Rated Cable

2	Red and Numbered 2
3	Orange and Numbered 3
4	Yellow and Numbered 4
5	Green and Numbered 5
6	Blue and Numbered 6
7	Purple and Numbered 7
8	Gray and Numbered 8
9	White and Numbered 9
10	Black and Numbered 10
11	Tan and Numbered 11
12	Pink and Numbered 12
13	Gray/Brown Stripe and Numbered 13
14	Gray/Red Stripe and Numbered 14
15	Gray/Orange Stripe and Numbered 15
16	Gray/Yellow Stripe and Numbered 16
17	Gray/Green Stripe and Numbered 17
18	Gray/Blue Stripe and Numbered 18
19	Gray/Purple Stripe and Numbered 19
20	Gray/Gray Stripe and Numbered 20
21	Gray/White Stripe and Numbered 21
22	Gray/Black Stripe and Numbered 22
23	Gray/Tan Stripe and Numbered 23
24	Gray/Pink Stripe and Numbered 24
25	Blue/Brown Stripe and Numbered 25
26	Blue/Red Stripe and Numbered 26
27	Blue/Orange Stripe and Numbered 27
28	Blue/Yellow Stripe and Numbered 28
29	Blue/Green Stripe and Numbered 29
30	Blue/Blue Stripe and Numbered 30
31	Blue/Purple Stripe and Numbered 31
32	Blue/Gray Stripe and Numbered 32

Overall Nominal Diameter: 0.890 in.

## Pair

Pair Color Code Chart:



## Pair Lay Length & Direction:



Mechanica	Characteristics (	(Overall)
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Operating Temperature Range:	-30°C To +75°C
Bulk Cable Weight:	458 lbs/1000 ft.
Max. Recommended Pulling Tension:	550 lbs.
Min. Bend Radius (Install)/Minor Axis:	8.900 in.

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

Applicable	<b>Standards</b>	& Env	ironmental	Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
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





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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		
C(UL) Flame Test:	FT4		
Plenum/Non-Plenum			
Plenum (Y/N):	No		

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm) 50

Nom. Inductance:

Inductance (µH/ft) .18

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
31

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
58

Nominal Velocity of Propagation:

**VP (%)** 

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 23.3

Ind. Pair Nominal Shield DC Resistance @ 20

15.900 Ohm/1000 ft

Deg. C:

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current
1.05 Amps per conductor @ 25°C

## **Notes (Overall)**

Notes: Pair jackets and shields bonded so both strip simultaneously.

### **Related Documents:**

No related documents are available for this product

## **Put Ups and Colors:**

Item # P	Putup	Ship Weight	Color	Notes	Item Desc
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