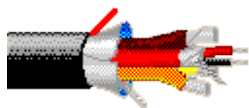


## 1411R Multi-Conductor - CMR Rated Cables



For more Information  
please call

1-800-Belden1

**General 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. (mm)
12	24	7x32	TC - Tinned Copper	0.6096

Total Number of Conductors: 24

**Insulation**

Insulation Material:

Insulation Material	Dia. (mm)
PO - Polyolefin	1.016

**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. (mm)
PVC - Polyvinyl Chloride	2.8194

**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:

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

Overall Nominal Diameter: 14.097 mm

**Pair****Pair Color Code Chart:**

Number	Color
1	Red
2	Black

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +75°C
Bulk Cable Weight:	245.553 Kg/Km
Max. Recommended Pulling Tension:	978.604 N
Min. Bend Radius/Minor Axis:	139.700 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
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**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)
50

**Nom. Inductance:**

## 1411R Multi-Conductor - CMR Rated Cables

## Inductance (μH/m)

0.59058

## Nom. Capacitance Conductor to Conductor:

## Capacitance (pF/m)

101.711

## Nom. Capacitance Cond. to Other Conductor &amp; Shield:

## Capacitance (pF/m)

190.298

## Nominal Velocity of Propagation:

## VP (%)

66

## Nom. Conductor DC Resistance:

## DCR @ 20°C (Ohm/km)

76.4473

## Nominal Outer Shield DC Resistance:

## DCR @ 20°C (Ohm/km)

19.686

Ind. Pair Nominal Shield DC Resistance @ 20      52.168 Ohm/km  
 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. Beldfoil® provides high reliability with ease of termination.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1411R 0101000	1,000 FT	172.000 LB	BLACK	C	12 #24 PR BFS PVC FS PVC
1411R 010500	500 FT	91.000 LB	BLACK	C	12 #24 PR BFS PVC FS PVC

## Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1      Revision Date: 09-11-2012

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