# **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION





### 9331 Multi-Conductor - 300V Power-Limited Tray Cable

For more Information please call

1-800-Belden1



# **General Description:**

22 AWG pairs stranded (7x30) tinned copper conductors, twisted pairs, PVC insulation, individually shielded, PVC jacket.

## **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>
6	22	7x30	TC - Tinned Copper

Total Number of Conductors: 12

#### Insulation

#### **Insulation Material:**

Insulation Material	Dia. (mm)
PVC - Polyvinyl Chloride	1.5748

#### **Inner Shield**

#### Inner Shield Material:

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

#### Inner Shield Drain Wire AWG:

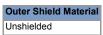


Inner Shield Drain Wire Stranding: 7x30

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### **Outer Shield**

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



#### **Outer Jacket**

#### **Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.3462

Outer Jacket Ripcord: Yes

#### **Overall Cable**

#### **Overall Cabling Lay Length & Direction:**

Direction Left-hand Lay

Overall Nominal Diameter: 11.608 mm

#### Pair

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

Number	Color
1	Black & Red and Numbered 1
2	Black & Red and Numbered 2
3	Black & Red and Numbered 3

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4	Black & Red and Numbered 4
5	Black & Red and Numbered 5
6	Black & Red and Numbered 6
Communication Wire	Orange

Machanical Characteristics (Overall)			
Mechanical Characteristics (Overall)			
Operating Temperature Range:	-30°C To +105°C		
Bulk Cable Weight:	150.308 Kg/Km		
Max. Recommended Pulling Tension:	449.268 N		
Min. Bend Radius/Minor Axis:	109.982 mm		
Applicable Specifications and Agency Co	mpliance (Overall)		
Applicable Standards & Environmental Progra	ams		
NEC/(UL) Specification:	CMG, ITC-ER, PLTC-ER		
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):	04/01/2005		
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:	UL1685 FT4 Loading		
C(UL) Flame Test:	FT4		
IEEE Flame Test:	1202		

# Suitability

Suitability - Indoor:

Suitability - Outdoor:

Yes

Suitability - Burial:

Yes

Sunlight Resistance:

Yes

#### Plenum/Non-Plenum

Plenum (Y/N): No

## **Surface Printing (Overall)**

Surface Printing:

LEGEND: BELDEN 9331 E34972 6PR22 SHIELDED (UL) CMG 105C OR
PLTC OR ITC SUN RES DIR BUR OR AWM 2464 80C 300V OR C(UL)
CMG----FT4 IEEE 1202 (2 FT, 7 DIGIT SEQUENTIAL NUMBER) FEET

## **Electrical Characteristics (Overall)**

Nom. Inductance:

Inductance (µH/m) 0.68901

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m) 147.645

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#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 85.306

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 49.215

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:

249.356 Ohm/km

#### Max. Operating Voltage - UL:

Voltage				
300 V RMS (PLTC				
CMG)				
150 V RMS (ITC)				

#### Max. Recommended Current:

Current
3.4 Amps per conductor @ 25°C

# **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9331 0601000	1,000 FT	120.000 LB	CHROME	С	6 FS PR #22 PVC PVC
9331 060500	500 FT	54.500 LB	CHROME	С	6 FS PR #22 PVC PVC

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 10-27-2014

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