

## 9316 Multi-Conductor - 300V Power-Limited Tray Cable

For more Information  
please call

1-800-Belden1



### General Description:

16 AWG pairs stranded (19x29) tinned copper conductors, twisted pairs, PVC insulation, overall Beldfoil® shield (100% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
1	16	19x29	TC - Tinned Copper

Total Number of Conductors: 2

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.4064

#### 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
18

Inner Shield Drain Wire Stranding: 19x30

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.9398

Outer Jacket Ripcord: Yes

#### Overall Cable

Overall Nominal Diameter: 6.502 mm

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & Red

##### Pair Lay Length & Direction:

Lay Length (mm)
69.850

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +105°C

Bulk Cable Weight: 61.016 Kg/Km

Max. Recommended Pulling Tension: 177.928 N

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Min. Bend Radius/Minor Axis:	65.024 mm
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### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG, ITC-ER, PLTC-ER
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2464 (300 V 80°C)
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
CSA Flame Test:	FT4
IEEE Flame Test:	1202

#### Suitability

Sunlight Resistance:	Yes
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#### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Surface Printing (Overall)

Surface Printing:	LEGEND: BELDEN 9316 E34972 1PR16 SHIELDED (UL) CL3R 105C OR PLTC OR ITC SUN RES OR AWM 2464 80C 300V ----FT4 (2 FT, 7 DIGIT SEQUENTIAL NUMBER) FEET
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### Electrical Characteristics (Overall)

#### Nom. Inductance:

Inductance (µH/m)	0.52496
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#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)	223.108
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#### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)	397.001
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#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)	13.780
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Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:	18.702 Ohm/km
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#### Max. Operating Voltage - UL:

Voltage	300 V RMS
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## 9316 Multi-Conductor - 300V Power-Limited Tray Cable

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9316 060U1000	1,000 FT	42.000 LB	CHROME		2 #16 PVC FS PVC
9316 060U500	500 FT	22.000 LB	CHROME		2 #16 PVC FS PVC
9316 0601000	1,000 FT	43.000 LB	CHROME		2 #16 PVC FS PVC
9316 06010000	10,000 FT	470.000 LB	CHROME	C Z	2 #16 PVC FS PVC
9316 0605000	5,000 FT	215.000 LB	CHROME	Z	2 #16 PVC FS PVC

**Notes:**

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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