

## 9954 Multi-Conductor - Communication and Instrumentation Cable



For more Information  
please call

1-800-Belden1

**General Description:**

16 AWG stranded (19x29) tinned copper conductors, conductors cabled, nylon skin over insulation, PVC insulation, tinned copper braid shield (90% coverage), PVC jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

# Conductors	AWG	Stranding	Conductor Material
4	16	19x29	TC - Tinned Copper

Total Number of Conductors:

4

**Insulation**

Insulation Material:

Layer #	Insulation Material	Wall Thickness (in.)
1	PVC - Polyvinyl Chloride	.012
2	Nylon	.004

Insulation Resistance:

500 megohms/1000 ft. @ 500 VDC

**Outer Shield**

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	90

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.027

**Overall Cable**

Overall Cabling Color Code Chart:

Number	Color
1	White
2	Black
3	Red
4	Green

Overall Nominal Diameter:

0.291 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +105°C
UL Temperature Rating:	105°C
Bulk Cable Weight:	69 lbs/1000 ft.
Max. Recommended Pulling Tension:	121.600 lbs.
Min. Bend Radius/Minor Axis:	3 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

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):	10/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes

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CA Prop 65 (CJ for Wire &amp; Cable):

Yes

MIL Order #39 (China RoHS):

Yes

Military Specification:

MIL-W-16878E/17 (insulated conductor)

Other Specification:

NEMA HP3

**Plenum/Non-Plenum**

Plenum (Y/N):

No

**Electrical Characteristics (Overall)****Nom. Inductance:**

Inductance (µH/ft)

.108

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)

49

**Nom. Capacitance Cond. to Other Conductor & Shield:**

Capacitance (pF/ft)

94

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

4.4

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

4.4

**Max. Operating Voltage - Non-UL:**

Voltage

600 V RMS

**Max. Recommended Current:**

Current

6.5 Amps per conductor @ 25°C

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9954 009100	100 FT	7.700 LB	WHITE		4 #16 PVC/NY SHLD PVC
9954 0091000	1,000 FT	73.000 LB	WHITE	C	4 #16 PVC/NY SHLD PVC
9954 009500	500 FT	36.000 LB	WHITE	C	4 #16 PVC/NY SHLD PVC

**Notes:**

C = CRATE REEL PUT-UP.

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