

9155 Multi-Conductor - Special Audio, Communication and Instrumentation Cable



For more Information
please call

1-800-Belden1



General Description:

20 and 18 AWG stranded (7x28 and 16x30) TC conductors, polyethylene insulation, Beldfoil® shield (100% coverage) over 20 AWG pair, 22 AWG stranded TC drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
1	20	7x28	TC - Tinned Copper
1	18	19x30	TC - Tinned Copper

Total Number of Conductors: 4

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)	AWG
PE - Polyethylene	0.508	20
PE - Polyethylene	0.508	18

Inner Shield

Inner Shield Material:

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

Inner Shield Drain Wire AWG:

AWG
22

Inner Shield Drain Wire Stranding: 7x30

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.7874

Overall Cable

Overall Nominal Diameter: 6.655 mm

Pair

Pair Color Code Chart:

Number	Color
1	Shielded: 20 AWG Black & Red
2	Unshielded: 18 AWG Green & White

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +60°C

UL Temperature Rating: 60°C (UL AWM Style 2094)

Bulk Cable Weight: 66.969 Kg/Km

Max. Recommended Pulling Tension: 309.595 N

Min. Bend Radius/Minor Axis: 69.850 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

NEC Articles: 800

CEC/(UL) Specification: CM

AWM Specification: UL Style 2094 (300 V 60°C)

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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
MIL Order #39 (China RoHS):	Yes

Flame Test

UL Flame Test:	UL1685 UL Loading
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
66

Nom. Inductance:

Description	Inductance (µH/m)
20 AWG	0.639795
18 AWG	0.567613

Nom. Capacitance Conductor to Conductor:

Description	Freq. (MHz)	Capacitance (pF/m)
20 AWG	1	78.744
18 AWG	1	72.182

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
150.926

Nominal Velocity of Propagation:

VP (%)
66

Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/km)
20 AWG	34.4505
18 AWG	21.6546

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 37.732 Ohm/km

Max. Operating Voltage - UL:

Voltage
300 V RMS (UL AWM Style 2094)

Max. Recommended Current:

Current
7 Amps per conductor @ 25°C (20 AWG); 9 Amps per conductor @ 25°C (18 AWG)

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9155 290U1000	1,000 FT	46.000 LB	BEIGE, LIGHT		1 SHPR #20,2#18 FRPE PVC
9155 2901000	1,000 FT	48.000 LB	BEIGE, LIGHT	C	1 SHPR #20,2#18 FRPE PVC
9155 290500	500 FT	24.000 LB	BEIGE, LIGHT	C	1 SHPR #20,2#18 FRPE PVC
9155 2905000	5,000 FT	235.000 LB	BEIGE, LIGHT	C	1 SHPR #20,2#18 FRPE PVC

Notes:

C = CRATE REEL PUT-UP.

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METRIC MEASUREMENT VERSION

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