

## 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 (in.)	AWG
PE - Polyethylene	.020	20
PE - Polyethylene	.020	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 (in.)
PVC - Polyvinyl Chloride	.031

#### Overall Cable

Overall Nominal Diameter: 0.262 in.

#### 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: 45 lbs/1000 ft.

Max. Recommended Pulling Tension: 69.600 lbs.

Min. Bend Radius/Minor Axis: 2.750 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

NEC Articles: 800

CEC/C(UL) Specification: CM

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

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

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:	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/ft)
20 AWG	.195
18 AWG	.173

### Nom. Capacitance Conductor to Conductor:

Description	Freq. (MHz)	Capacitance (pF/ft)
20 AWG	1	24
18 AWG	1	22

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

Capacitance (pF/ft)
46

### Nominal Velocity of Propagation:

VP (%)
66

### Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/1000 ft)
20 AWG	10.5
18 AWG	6.6

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 11.500 Ohm/1000 ft

### 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	1 EA	0.000 LB			RSWT 5B-228/1 M
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.

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

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