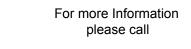
Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

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



1-800-Belden1



General Description:

Max. Recommended Pulling Tension:

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.

(5)	
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	
Shielded: 20 AWG Black & Red Unshielded: 18 AWG Green & White	
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 Becommended Bulling Tension	200 505 N

309.595 N

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

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

Min. Bend Radius/Minor Axis:	69.850 mm				
Applicable Specifications and Agency Compliance (Overall)					
Applicable Standards & Environmental Progra					
NEC/(UL) Specification:	СМ				
NEC Articles:	800				
CEC/C(UL) Specification:	СМ				
AWM Specification:	UL Style 2094 (300 V 60°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):	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				
Plenum/Non-Plenum					
Plenum (Y/N):	No				
Electrical Characteristics (Overall)					
Nom. Characteristic Impedance:					
Impedance (Ohm) 66					
Nom. Inductance:					
Description Inductance (µH/m)					
20 AWG 0.639795 18 AWG 0.567613					
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 & Shi Capacitance (pF/m)	eld:				
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				

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

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

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	305 MT	20.865 KG	BEIGE, LIGHT		1 SHPR #20,2#18 FRPE PVC
9155 2901000	305 MT	21.773 KG	BEIGE, LIGHT	С	1 SHPR #20,2#18 FRPE PVC
9155 290500	152 MT	10.886 KG	BEIGE, LIGHT	С	1 SHPR #20,2#18 FRPE PVC
9155 2905000	1,524 MT	106.595 KG	BEIGE, LIGHT	С	1 SHPR #20,2#18 FRPE PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 10-03-2012

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