

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

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 Programs

NEC/(UL) Specification:	CM
NEC Articles:	800
CEC/C(UL) Specification:	CM
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

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)

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	C	1 SHPR #20,2#18 FRPE PVC
9155 290500	152 MT	10.886 KG	BEIGE, LIGHT	C	1 SHPR #20,2#18 FRPE PVC
9155 2905000	1,524 MT	106.595 KG	BEIGE, LIGHT	C	1 SHPR #20,2#18 FRPE PVC

Notes:

C = CRATE REEL PUT-UP.

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

© 2013 Belden, Inc.
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.