Belden

Product: 9451WB



Audio Cable, 1 Pair 22 AWG, TC, Shielded, Waterblocked

Product Description

Audio Cable, 1 Pair 22 AWG stranded (7x30) TC conductors, polypropylene insulation, overall Beldfoil® shield (100% coverage), 22 AWG stranded TC drain wire, waterblock tape, polyethylene jacket.

Technical Specifications

Product Overview

Suitable Applications:	Automatic Stripping Equipment; Low Voltage analog Signals (4-20mA, 0-10V, ...); Low Voltage Digital Control (24V, …); Line Level audio; Computer Communication; Panel Wiring

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	22 AWG	7x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PP - Polypropylene	0.0085 in (0.22 mm)	0.046 in (1.2 mm)	Black & Red

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC

Outer Shield Table Notes:	Outer Shield Waterblocking Tape

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PE - Polyethylene	0.020 in (0.51 mm)	0.165 in

Overall Cable Diameter (Nominal):	0.165 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Delay	Nom. Velocity of Prop.	Max. Current
18.2 Ohm/1000ft	35 pF/ft (110 pF/m)	67 pF/ft (220 pF/m)	1.5 ns/ft	66%	6 Amps per Conductor at 30ºC

Nom Outer Shield DCR@Cond DCR1-cnv:	13.37 Ohm/1000ft (43.86 Ohm/km)

Voltage

UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
60°C	-20°C to +60°C

Bend Radius

Stationary Min.	Installation Min.
1.65 in (41.9 mm)	1.65 in

Max. Pull Tension:	27 lbs (12 kg)
Bulk Cable Weight:	11 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

History

Update and Revision:	Revision Number: 0.368 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
9451WB 010U1000	Black	UnReel	1,000 ft	612825253198

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