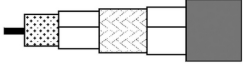




Product: [CX9D1](#)

Life Cycle Status: Discontinued



CX9D1 - Broadband Coax 9, 17 AWG Solid BC, Trishield, LSZH Jkt

Product Description

Broadband Coax 9, 17 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 50% Tinned Copper Braid + Foil Shield, LSZH Jacket.

Technical Specifications

Product Overview

Suitable Applications:	Broadband, Cable Television (CATV), RF drop cable, Over-The-Air (OTA) antennas
------------------------	--

Construction Details

Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	18 AWG	Solid	1.1 mm	BC - Bare Copper

Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	4.8 mm (0.19 in)

Table Notes:	Gas Injected
--------------	--------------

Outer Shield

Layer	Outer Shield Type	Material	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	100%
2	Braid	Tinned Copper (TC)	70%
3	Tape	Bi-Laminate (Alum+Poly)	100%

Table Notes:	Foil Tape has L-Fold and is bonded to the sheath
--------------	--

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	7.1 mm

Table Notes:	According to European Standard EN 50290-2-20
--------------	--

Electrical Characteristics

Regularity of Impedance:	40 dB
--------------------------	-------

Return Loss (RL)

Frequency	Min. Return Loss
30-470 MHz	27 dB
470-1000 MHz	24 dB
1000-2000 MHz	18 dB
2000-3000 MHz	16 dB

Attenuation

Frequency	Nom. Attenuation
5 MHz	1.5 dB/100m
50 MHz	4.0 dB/100m
100 MHz	5.7 dB/100m

200 MHz	8.2 dB/100m
400 MHz	11.8 dB/100m
600 MHz	14.7 dB/100m
800 MHz	17.2 dB/100m
1000 MHz	19.4 dB/100m
1350 MHz	23.0 dB/100m
1750 MHz	27.0 dB/100m
2000 MHz	28.7 dB/100m
2150 MHz	30.0 dB/100m
2400 MHz	32.0 dB/100m
3000 MHz	36.0 dB/100m

Table Notes: Maximum attenuation is 10% higher

Electricals

Max. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
19 Ohm/km (5.8 Ohm/1000ft)	14 Ohm/km (4.3 Ohm/1000ft)	51 pF/m (16 pF/ft)	75 Ohm	86%

Transfer Impedance

Frequency	Max. Transfer Impedance
5-30 MHz	max. 2.5 mOhm/m

Screening

Frequency	Min. Screening Attenuation
30-1000 MHz	95 dB
1000-2000 MHz	85 dB
2000-3000 MHz	75 dB

Screening Class: A+

Mechanical Characteristics

Temperature

Operating	Storage
-40°C To +70°C	-40°C To +70°C

Bend Radius

Stationary Min.
35 mm (1.4 in)

Max. Pull Tension:	60 N (13 lbf)
Bulk Cable Weight:	54 kg/km

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Dca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Dca-s1,d1,a1
CENELEC Compliance:	EN 50117-1
UK Regulation Compliance:	UKCA Mark

History

Update and Revision:	Revision Number: 0.67 Revision Date: 07-29-2024
----------------------	---

© 2025 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 here in 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 "ASIS" 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 all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information 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. The 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.