



Product: [9104](#)

Broadband Coax, Series 59, 20 AWG Solid BCCS, Foil + 65% AL Braid, PVC Jkt, CM



Product Description

Broadband Coax, Series 59, 20 AWG Solid Bare Copper Covered Steel Conductor, PE Insulation, Foil + 65% Aluminum Braid Shield, PVC Jacket, CM

Technical Specifications

Product Overview

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

Construction Details

Series Type:	59
--------------	----

Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	20 AWG	Solid	0.032 in	BCCS - Bare Copper Covered Steel

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.145 in (3.68 mm)	White

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

Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
2	Braid	Aluminum		65%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.237 in (6.02 mm)

Overall Cable Diameter (Nominal):	0.237 in (6.02 mm)
-----------------------------------	--------------------

Electrical Characteristics

Return Loss (RL)

Frequency	Min. Structural Return Loss
5-1000 MHz	20 dB

Attenuation

Frequency	Max. Attenuation
5 MHz	0.86 dB/100ft
55 MHz	2.05 dB/100ft
211 MHz	3.80 dB/100ft
270 MHz	4.22 dB/100ft
300 MHz	4.45 dB/100ft
350 MHz	4.80 dB/100ft
400 MHz	5.10 dB/100ft
450 MHz	5.40 dB/100ft

550 MHz	5.95 dB/100ft
750 MHz	6.97 dB/100ft
870 MHz	7.57 dB/100ft
1000 MHz	8.12 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
44.5 Ohm/1000ft (146 Ohm/km)	12 Ohm/1000ft (39 Ohm/km)	16.2 pF/ft (53.1 pF/m)	75 Ohm	83%

Voltage

UL Voltage Rating
300 V RMS

Mechanical Characteristics

Temperature

Operating
-40°C To +80°C

Bend Radius

Stationary Min.	Installation Min.
2.25 in (57.2 mm)	2.25 in (57.2 mm)

Max. Pull Tension:	104 lbs (47.2 kg)
Bulk Cable Weight:	23 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor
Flammability / Reaction to Fire:	UL1685 UL Loading, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CATV, CM
CEC / C(UL) Compliance:	CM
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.486 Revision Date: 05-01-2023
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
9104 0101000	Black	Reel	1,000 ft	612825224280
9104 010U1000	Black	UnReel	1,000 ft	612825224266
9104 009U1000	White	UnReel	1,000 ft	612825224297
9104 Q5HU1000	White, Neutral	UnReel	1,000 ft	612825224303

© 2023 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.