



Product: [1672J](#)

75 Ohm High-Frequency Conformable Coax, #29 SCCCS Coax, Unjacketed



Product Description

29 AWG solid .011" silver-coated copper-covered steel conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Coax
29	Solid	SCCS - Silvered Copper Covered Steel	0.0114 in	1
Conductor Count:		1		

Insulation		
Material	Material Trade Name	Nominal Diameter
PTFE - Polytetrafluoroethylene	Teflon®	0.062 in

Outer Shield			
Type	Layer	Material	Coverage [%]
Tape	1	Bare Copper (BC)	100%
Braid	2	Tinned Copper (TC + Tin Filled)	100%

Outer Jacket	
Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.127 in

Electrical Characteristics

Conductor DCR				
Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
205 Ohm/1000ft	205 Ohm/1000ft		10 Ohm/1000ft	10 Ohm/1000ft

Capacitance	
Nom. Capacitance Conductor to Shield	
19.5 pF/ft	

Inductance	
Nominal Inductance	
0.109 µH/ft	

Impedance	
Nominal Characteristic Impedance	
75 Ohm	

Return Loss (RL)	
Frequency [MHz]	Min. Structural Return Loss (SRL)
10-1000 MHz	25 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.6 dB/100ft
10 MHz	1.8 dB/100ft
50 MHz	4.1 dB/100ft
100 MHz	6.5 dB/100ft
200 MHz	9 dB/100ft
400 MHz	12.8 dB/100ft
700 MHz	18 dB/100ft
1000 MHz	22.1 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.46 ns/ft	70%

Power Rating

Frequency [MHz]	Max. Power Rating [W]	Nominal Power Rating [W]
1 MHz	520 W	520 W
10 MHz	295 W	295 W
50 MHz	195 W	195 W
100 MHz	160 W	160 W
200 MHz	140 W	140 W
400 MHz	130 W	130 W
700 MHz	127 W	127 W
1,000 MHz	125 W	125 W

Voltage

Non-UL Voltage Rating	UL Voltage Rating
900 V RMS	30 V RMS

Temperature Range

Non-UL Temp Rating:	105°C
UL Temp Rating:	105°C
Operating Temperature Range:	-40°C To +105°C

Mechanical Characteristics

Bulk Cable Weight:	16 lbs/1000ft
Max. Pull Tension:	20 lbs
Min Bend Radius (Overall):	1 in
Min. Bend Radius During Installation:	0.125 in
Min Flexing Radius:	0.375 in

Standards

UL AWM Style Compliance:	AWM 10245
RG Type:	405

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	Horizontal Wire
UL voltage rating:	30 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
1672J 010500	Black	Reel	500 ft	612825319184
1672J 0101000	Black	Reel	1,000 ft	612825120360
1672J 368500	Clear, Transparent	Reel	500 ft	612825120377

Footnote:	V - 250' PUT-UP EXACT LENGTH MAXIMUM OF 3 PIECES, MINIMUM LENGTH 50'. 500' PUT-UP EXACT LENGTH MAXIMUM OF 5 PIECES, MINIMUM LENGTH 50'. 1000' PUT-UP EXACT LENGTH MAXIMUM OF 8 PIECES, MINIMUM LENGTH 50'. E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'. C - CRATE REEL PUT-UP.
-----------	--

Product Notes

Notes:	Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.
--------	---

History

Update and Revision:	Revision Number: 0.397 Revision Date: 04-29-2024
----------------------	--

© 2024 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.