

Part Number: 9258

50 Ohm, RG8, 16 AWG, CM PVC Jacket



Product Description

50 Ohm, RG-8X type, 16 AWG stranded (19x29) .058" bare copper conductor, gas-injected FPE insulation, bare copper braid shield (95% coverage), CM PVC jacket.

Technical Specifications

Product Overview

Environmental Space:	Indoor/Outdoor
----------------------	----------------

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
16	19x29	BC - Bare Copper	0.058 in	1

Conductor Count:	1
Conductor Size:	16 AWG

Insulation

Material	Nominal Diameter
Gas-injected FPE - Foam Polyethylene	0.155 in

Outer Shield Material

Type	Material	Coverage [%]
Braid	BC - Bare Copper	95 %

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.242 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
4.3 Ohm/1000ft	3.3 Ohm/1000ft	3.3 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
24.8 pF/ft

Shielding:	Braid(s)
------------	----------

Inductance

Nominal Inductance
0.065 μ H/ft

Impedance

Nominal Characteristic Impedance
50 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
10 MHz	0.9 dB/100ft
50 MHz	2.1 dB/100ft
100 MHz	3.1 dB/100ft
200 MHz	4.5 dB/100ft
400 MHz	6.6 dB/100ft
700 MHz	9.1 dB/100ft
900 MHz	10.7 dB/100ft
1000 MHz	11.2 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.2 ns/ft	82 %

Power Rating

Frequency [MHz]	Max. Power Rating [W]
10 MHz	1,000 W
50 MHz	370 W
100 MHz	250 W
200 MHz	190 W
400 MHz	110 W
700 MHz	75 W
1,000 MHz	60 W

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	80°C (UL AWM Style 1354)
Operating Temp Range:	-40°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	37 lbs/1000ft
Max Recommended Pulling Tension:	75 lbs
Min Bend Radius/Minor Axis:	2.5 in

Standards

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
UL AWM Style:	UL Style 1354 (30 V 80°C)
CPR Euroclass:	Eca
RG Type:	8/X Type
RG / Series Type:	8/X Type

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes
-----------------------	-----

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

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

Part Number

Variants

Item #	Color	Footnote
9258 0101000	Black	C
9258 010500	Black	C
9258 010U1000	Black	
9258 010U500	Black	
9258 0091000	White	

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

© 2018 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.