



Product: <u>82240</u> ☑

50 Ohm Wireless Transmission Coax, RG-58, 20 AWG Solid BC, 95% TC Braid, Flamarrest® Jkt, CMP

Product Description

50 Ohm Wireless Transmission Coax, RG-58, 20 AWG Solid Bare Copper Conductor, FEP Insulation, 95% Tinned Copper Braid Shield, Flamarrest® Jacket, CMP

Technical Specifications

Product Overview

Suitable Applications:	Wireless microphones, Two-Way Radios, Amateur (Ham) Radio, Low Power FM, GPS, RFID (Radio Frequency Identificatio
onstruction Details	
с Туре:	58
onductor	
Size Stranding Nom. Diam	ter Material
0 AWG Solid 0.032 in	BC - Bare Copper
ulation	
Material	Nom. Insulation Diameter Color Code
EP - Fluorinated Ethylene Propyle	ne 0.107 in (2.72 mm) Clear
ter Shield	
Outer Shield Type Material	Coverage
raid Tinned Coppe	r (TC) 95%
iter Jacket	
Material Nom. D	iameter
VC - Polyvinyl Chloride 0.159 in	4.04 mm)
verall Cable Diameter (Nominal):	0 159 in (4 04 mm)

Attenuation

Frequency	Nom. Attenuation
1 MHz	0.5 dB/100ft
10 MHz	1.2 dB/100ft
50 MHz	3.0 dB/100ft
100 MHz	4.3 dB/100ft
200 MHz	6.4 dB/100ft
400 MHz	9.7 dB/100ft
700 MHz	13.7 dB/100ft
900 MHz	16.1 dB/100ft
1000 MHz	17.3 dB/100ft

Power Rating

Frequency	Max. Power Rating		
1 MHz	4,799 W		

10 MHz	1,937 W
50 MHz	782 W
100 MHz	542 W
200 MHz	370 W
400 MHz	248 W
700 MHz	178 W
900 MHz	153 W
1,000 MHz	143 W

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
10.1 Ohm/1000ft	3.8 Ohm/1000ft (12 Ohm/km)	27.4 pF/ft (89.9 pF/m)	53 Ohm	70%

Voltage

UL Voltage Rating 300 V (CMP)

Mechanical Characteristics

Temperature

UL Temperature	Operating	
75°C	0°C to +75°C	

Bend Radius

Installation Min. 1.6 in (41 mm)

Max. Pull Tension:	47 lbs (21 kg)
Bulk Cable Weight:	30 lbs/1000ft (45 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, 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)
Non-Plenum Number:	8240

History

Update and Revision:

Revision Number: 0.455 Revision Date: 04-13-2023

Part Numbers

Variants

ltem #	Color	Putup Type	Length	UPC
82240 010U500	Black	UnReel	500 ft	612825434832
82240 010Z500	Black	ReelTuff Box	500 ft	612825196440
82240 010Z1000	Black	ReelTuff Box	1,000 ft	612825434757
82240 877U500	Natural	UnReel	500 ft	612825434849
82240 8771000	Natural	Reel	1,000 ft	612825196426
82240 877U1000	Natural	UnReel	1,000 ft	612825196433
82240 877Z1000	Natural	ReelTuff Box	1,000 ft	612825196471

© 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.