



Product: [9207NH](#)

Computer Cable for EIA RS-232 Applications

Product Description

20 AWG stranded (7x28) one tinned copper conductor, one bare copper conductor, polyethylene insulation, polyethylene inner jacket, Duofoil® (100% coverage) plus a tinned copper braid shield (85% coverage), LSZH outer jacket, Flame resistance IEC 60332-3C

Technical Specifications

Product Overview

Suitable Applications:	Twinaxial instrumentation and computer cable; For data transmission applications
------------------------	--

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Insulated conductor A	20	7x28	BC - Bare Copper	1
Insulated conductor B	20	7x28	TC - Tinned Copper	1

Conductor Count:	2
Total Number of Pairs:	1

Insulation

Element	Material	Nominal Diameter	Diameter +/- Tolerance
Insulated conductor A	PE - Polyethylene	2.11 mm	0.08 mm
Insulated conductor B	PE - Polyethylene	2.11 mm	0.08 mm

Color Chart

Number	Color
Insulated conductor A	Clear
Insulated conductor B	Clear

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Thickness of Foil
Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	85%	9 / 23 / 9 µm
Braid	Tinned Copper (TC)		85%	

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	8.6 mm	0.89 mm

Construction and Dimensions

Cabling

Description
2 wires twisted to cable core

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR

31.2 Ohm/km	6.6 Ohm/km
-------------	------------

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
47.6 pF/m	75.5 pF/m

Inductance

Nominal Inductance
0.51 µH/m

Impedance

Nominal Characteristic Impedance
100 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.98 dB/100m
10 MHz	3.94 dB/100m
50 MHz	9.19 dB/100m
100 MHz	13.45 dB/100m
200 MHz	21 dB/100m
400 MHz	33.46 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
510 ns/ft	66%

Voltage

Voltage Rating [V]
300 V

Temperature Range

Installation Temp Range:	-15°C To +80°C
Storage Temp Range:	-45°C To +80°C
Operating Temp Range (Flexible Install):	-15°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C

Mechanical Characteristics

Oil Resistance:	ASTMD741
Min Bend Radius During Installation:	86 mm

Standards

CPR Euroclass:	Eca
Other Compliance:	BS 7655 section 6.1 table 1, LTS 3

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca
EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01

Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
9207NH.00100	Black	Reel	100 m	8719605020222
9207NH.00152	Black	Reel	152 m	8719605020246
9207NH.00305	Black	Reel	305 m	8719605020253

9207NH.00500	Black	Reel	500 m	8719605020260
9207NH.001000	Black	Reel	1,000 m	8719605020239
9207NH.01250	Gray	Reel	250 m	8719605020284
9207NH.011000	Gray	Reel	1,000 m	8719605020277

History

Update and Revision:	Revision Number: 0.203 Revision Date: 12-18-2020
----------------------	--

© 2020 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.