




**Product:** [89207](#) 

100Ω Twinax, 1 Pr #20 Str-1c TC/1c BC, FEP ins, FEP Inner Jkt, Duofoil®+TC Braid, FEP Jkt, CMP

Product Description

Twinax 100Ω, 1 Pair, 20 AWG (7x28) one tinned, one bare copper conductor, FEP insulation, FEP inner jacket, Duofoil® + tinned copper braid shield 85%, FEP jacket, CMP

Technical Specifications

Product Overview

Suitable Applications:	Computer, Instrumentation
------------------------	---------------------------

Construction Details

Conductor

Size	Stranding	Nom. Diameter	Material
20 AWG	7x28	0.036 in	TC - Tinned Copper
20 AWG	7x28	0.036 in	BC - Bare Copper

Insulation

Material	Nom. Insulation Diameter	Color Code	Notes
FEP - Fluorinated Ethylene Propylene	0.072 in (1.8 mm)	Clear	FEP on both conductors
FEP - Fluorinated Ethylene Propylene	0.201 in (5.11 mm)	Clear	FEP over pair

Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
2	Braid	Tinned Copper (TC)		85%

Outer Jacket

Material	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.259 in (6.58 mm)

Overall Cable Diameter (Nominal):	0.259 in (6.58 mm)
-----------------------------------	--------------------

Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation
1 MHz	0.30 dB/100m
10 MHz	1.20 dB/100m
50 MHz	2.80 dB/100m
100 MHz	4.10 dB/100m
200 MHz	6.40 dB/100m
300 MHz	8.40 dB/100m
400 MHz	10.20 dB/100m

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Cond (Mutual)	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
9.5 Ohm/1000ft	2.5 Ohm/1000ft (8.2 Ohm/km)	14.0 pF/ft (45.9 pF/m)	23.0 pF/ft (75.5 pF/m)	100 Ohm	70%

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

UL Temperature	Operating
200°C	-70°C to +200°C

Bend Radius

Installation Min.
3.0 in (76 mm)

Max. Pull Tension:	88 lbs (40 kg)
Bulk Cable Weight:	52 lbs/1000ft

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:	9207

History

Update and Revision:	Revision Number: 0.486 Revision Date: 05-31-2023
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
89207 010100	Black	Reel	100 ft	612825220756	C
89207 010500	Black	Reel	500 ft	612825220770	C
89207 0101000	Black	Reel	1,000 ft	612825220763	C

© 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.