



Product: [89182](#)

150Ω Twinax, 1 Pr #22 Str TC, FFEP Ins, OA DF, FEP Jkt, CMP

[Request Sample](#)

Product Description

Twinax 150Ω, 1 Pair 22AWG (19x34) Tinned Copper, Foam FEP Insulation, Overall Duofoil® Shield, FEP Jacket, CMP

Technical Specifications

Product Overview

Suitable Applications:	Harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.
------------------------	--

Construction Details

Conductor

Size	Stranding	Nom. Diameter	Material
22 AWG	19x34	0.030 in	TC - Tinned Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
FEP - Fluorinated Ethylene Propylene (Foam)	0.130 in (3.30 mm)	Black & Yellow

Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%

Outer Jacket

Material	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.307 in (7.80 mm)

Overall Cable Diameter (Nominal):	0.307 in (7.80 mm)
-----------------------------------	--------------------

Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation
1 MHz	0.40 dB/100ft
10 MHz	1.10 dB/100ft
50 MHz	2.75 dB/100ft
100 MHz	4.30 dB/100ft
200 MHz	6.20 dB/100ft
400 MHz	8.80 dB/100ft

Electricals

Element	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.
Pair(s)	14.0 Ohm/1000ft	6.3 Ohm/1000ft (21 Ohm/km)	8.8 pF/ft (29 pF/m)	16.5 pF/ft (54.1 pF/m)	150 Ohm	78%

Voltage

UL Voltage Rating
300 V RMS (CL2P, CMP)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
6.25 in (159 mm)	2.5 in (64 mm)

Max. Pull Tension:	28 lbs (13 kg)
Bulk Cable Weight:	49 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor, Outdoor, Aerial - When supported by messenger wire, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 725, Article 800, CL2P, 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:	9182

Product Notes

Notes:	Cable contains fillers for better electrical performance.
--------	---

History

Update and Revision:	Revision Number: 0.523 Revision Date: 04-29-2024
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
89182 010500	Black	Reel	500 ft	612825220145	C
89182 0101000	Black	Reel	1,000 ft	612825220138	C
89182 0105000	Black	Reel	5,000 ft	612825220152	
89182 0085000	Gray	Reel	5,000 ft	612825220114	C

© 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.