

Product: 81553

77Ω Twinax, #24 SCHSCA, TFE, SCHSCA Braid, PFA Jkt

Product Description

Twinax, 77 ohm, 24 AWG stranded (19x36) .024" silver-coated high-strength copper alloy conductor, TFE insulation, silver-coated high strength copper alloy braid shield (93% coverage), PFA jacket, commercial non-QPL product

Technical Specifications

Product Overview

Suitable Applications:	Harsh Environment, IIoT, Factory or Process Automation, Video, Audio, Data Communication, etc.

Construction Details

Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
2	24 AWG	19x36	0.024 in	SHSCA - Silver Coated High Strength Copper Alloy

Insulation

Material	Nom. Insulation Diameter	Color Code
PTFE - Polytetrafluoroethylene	0.042 in (1.1 mm)	White & Blue

Outer Shield

Outer Shield Type	Material	Coverage
Braid	Silvered High Strength Copper Alloy (SHSCA)	93%

Outer Jacket

Material	Nom. Diameter
PFA - Perfluoroalkoxy	0.129 in (3.28 mm)

Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation
1 MHz	1.2 dB/100ft
10 MHz	4.0 dB/100ft
50 MHz	9.2 dB/100ft
100 MHz	13.0 dB/100ft
200 MHz	18.4 dB/100ft
400 MHz	26.1 dB/100ft
700 MHz	34.6 dB/100ft
900 MHz	39.3 dB/100ft
1000 MHz	41.4 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Delay Skew
24.5 Ohm/1000ft	7.3 Ohm/1000ft (24 Ohm/km)	24.0 pF/ft (78.7 pF/m)	77 Ohm	70%	70 ns/100m

Voltage

UL Voltage Rating

150 V RMS

Mechanical Characteristics

Temperature

UL Temperature	Operating
200°C	-55°C To +200°C

Bend Radius

Stationary Min.	Installation Min.
1.29 in (32.8 mm)	1.29 in (32.8 mm)

Max. Pull Tension:	51 lbs (23 kg)
Bulk Cable Weight:	15 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Indoor
Flammability / Reaction to Fire:	NFPA 262 (UL 910), IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	Article 725, CL2P
Military Compliance:	Commercial, non-QPL product (M17/176-00002, MIL-STD-1553 Data Bus Cable)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	PF_81553 1)# Elements@Conductor1:-In Stibo it was Blank and now changed to 2. 2)Size@Conductor1 :-In Stibo it was 24 now changed to 24AWG. 3)Color@Color Chart1 01 :- In stibo it was Blank now Changed to White & Blue. 4)Cable Diameter (Nominal)- In Stibo it was Blank Now Changed to 0.129 in. 5)Coverage@OuterShield1 2 - in stibo it was 93% Now changed to 90%.

History

Update and Revision:	Revision Number: 0.472 Revision Date: 02-15-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
81553 006500	Blue	Reel	500 ft	612825195559	F Z
81553 0061000	Blue	Reel	1,000 ft	612825195542	F Z

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