



Product: [74005](#) 

XGIE, 4C #22, Str, Polypropylene(PP), 300 V RMS, CSA FT2

Product Description

XGIE, 4 Conductor 22 AWG (19/34) TC - Tinned Copper, Polypropylene(PP) Insulation, Overall Aluminum/Polyester Shield, Green Polyurethane, Zero Halogen (ZH) Outer Jacket, CSA FT2 FT2 UL FT2; CSA FT2

Technical Specifications

Product Overview

Suitable Applications:	Data, communication, audio, and low-level signal transmission; industrial networking, serial communication, control panels, automation equipment, and instrumentation systems.
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Construction Details

Conductor

Element	Size	Stranding	Material	No. of Pairs
Conductor(s)	22 AWG	19x34	TC - Tinned Copper	2

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Conductor(s)	PE - Polyethylene	0.061 in (1.5 mm)	White & Blue & Yellow & Orange
			1 Quad

Cable Core

Description
1 quad with center filler

Inner Jacket

Material	Nom. Diameter
TPE - Thermoplastic Elastomer	4.3 mm (0.17 in)

Inner Jacket Table Notes:	Bedding
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Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%
Braid	Tinned Copper (TC)	85%

Outer Jacket

Separator	Material	Nom. Diameter
non-Woven Tape	PUR - Polyurethane (Halogen Free)	0.256 in (6.50 mm)

Outer Jacket1 Table Notes:	Sheath Resists Weld-Splatter
Overall Cable Diameter (Nominal):	0.256 in (6.50 mm)

Electrical Characteristics

Electricals

Element	Max. Conductor DCR	Nom. Characteristic Impedance
Conductor(s)	57.1 Ohm/km (17.4 Ohm/1000ft)	100 Ohm

Delay

Max. Delay	Nom. Velocity of Prop.
530 ns/100m	68%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. SRL (Structural Return Loss) [dB]
1	2.1 dB/100m	65	62	64	61	
4	4 dB/100m	56	53	52	49	23
10	6.3 dB/100m	50	47	44	41	25
16	8 dB/100m	47	44	40	37	25
31.25	11.4 dB/100m	43	40	34	31	23.6
62.5	16.5 dB/100m	38	35	28	25	21.5
100	21.3 dB/100m	35	32	24	21	20.1

High Frequency Table Notes: Reference standard: ISO/IEC 11801 ed 2.0, Cat 5e

Transfer Impedance

Frequency	Max. Transfer Impedance
1 MHz	Max. 10 mOhm/m
10 MHz	Max. 10 mOhm/m
30 MHz	Max. 30 mOhm/m
100 MHz	100 mOhm/m

Transfer Impedance Class: Grade 1

Screening Class: Type I

Screening Table Notes: Coupling Attenuation

Voltage

Voltage Rating
300 V

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-40°C to +80°C	-5°C To +60°C	-40°C to +80°C

Trailing/Flexing Properties

Motion	Number of Cycles	Radius	Speed	Acceleration	Traverse Length	Torsion Angle
Trailing/Bending	2,000,000	60 mm	3 m/s	3 m/s ²		
Torsion/Twisting	2,000,000				1 m	180 °

Bend Radius

Stationary Min.	Installation Min.
1.2 in (30 mm)	1.3 in (33 mm)

Max. Pull Tension: 71 lbs (32 kg)

Standards and Compliance

Environmental Suitability:	Indoor, Indoor, Sunlight Resistance, Oil Resistance
AWM Compliance:	AWM 20549
Data Category:	Category 5
ISO/IEC Compliance:	ISO/IEC 11801-1
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

Product Notes

Notes:	Alpha Wire -* P/N 74005 4C 22 AWG INDUSTRIAL ETHERNET PROFINET TYPE C SHIELDED CAT5 FT2 CE ROHS (SEQ FOOTAGE)
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History

Update and Revision:	Revision Number: 0.76 Revision Date: 07-08-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length
74005 GR002	Green	Reel	500 ft

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