



Product: [74007](#) 

XGIE, 4C #22, Str, Polyolefin, 300 V RMS

Product Description

XGIE, 4 Conductor 22 AWG (19/34) TC - Tinned Copper, Polyolefin Insulation, Overall Aluminum/Polyester Shield, Black Polyurethane, Zero Halogen (ZH) Outer Jacket, EN 60332-1 Flame Behavior; EN 60332-3 Flame Behavior; EN 60754-1 Acid Gas Generation; EN 60754-2 Acid Gas Generation; EN 61034-2 Smoke Emission

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

Conductor Table Notes:	IEC 60228 class 5
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Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Conductor(s)	PO - Polyolefin	0.062 in (1.6 mm)	White & Blue & Yellow & Orange
			1 Quad

Cable Core

Description
1 quad with center filler

Inner Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant, Thermoset)	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)	80%

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant, Thermoset)	0.264 in (6.71 mm)

Outer Jacket1 Table Notes:	e-Beamed to Cross-link
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Overall Cable Diameter (Nominal):	0.264 in (6.71 mm)
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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	66%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. FEXT [dB]
1	2.1 dB/100m	65.3	64
4	4.1 dB/100m	56.3	52
10	6.5 dB/100m	50	43.8
16	8.3 dB/100m	47	40
31.25	11.7 dB/100m	42.9	33.9
62.5	17 dB/100m	38.4	28
100	22 dB/100m	35.3	24

High Frequency Table Notes:	EN 50288-2-2 and ISO/IEC 11801 ed. 2.0, Cat. 5e
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Transfer Impedance

Frequency	Max. Transfer Impedance
10 Mhz	Max. 10 mOhm/m

Voltage

Voltage Rating
300 V

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-40°C to +90°C	-25°C To +50°C	-40°C to +90°C

Bend Radius

Stationary Min.	Installation Min.
1.3 in (33 mm)	2.6 in (66 mm)

Bend Radius Table Notes:	Setting (fixed) radius:5*D mm, Reference standard: EN50288-2-2 and ISO/IEC11801 ed. 2.0Cat5e as a minimum
Max. Pull Tension:	22 lbs (10.0 kg)
Bulk Cable Weight:	46 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-3-25, UN ECE R118.03
IEEE Compliance:	POE per 802.3af & POE+ 802.3at-2009
Data Category:	Category 5e
CENELEC Compliance:	EN 45545-2
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 10 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU CE Mark

Product Notes

Notes:	Alpha Wire -* P/N 74007 4C 22 AWG INDUSTRIAL ETHERNET PROFINET TYPE C SHIELDED CAT5E CE ROHS (SEQ FOOTAGE)
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History

Update and Revision:	Revision Number: 0.6 Revision Date: 07-08-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length
74007 BK002	Black	Reel	500 ft

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