



**Product:** [74001](#) 

XGIE, 4C #22, Str, Polyolefin, 300 V RMS, AWM/STYLE 20549 80C, CSA FT2

## Product Description

XGIE, 4 Conductor 22 AWG (19/34) TC - Tinned Copper, Polyolefin Insulation, Overall Aluminum/Polyester Shield, Green Polyurethane, Zero Halogen (ZH) Outer Jacket, AWM/STYLE 20549 80C, 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)	PP - Polypropylene	0.064 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)	4.2 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)	0.265 in (6.73 mm)

Outer Jacket1 Table Notes:	Jacket color green (RAL 6018)
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Overall Cable Diameter (Nominal):	0.265 in (6.73 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	68%

#### High Frequency

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

UL Temperature	Operating	Installation	Storage
80°C	-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	5,000,000	60 mm	3 m/s	3		
Torsion/Twisting	1,000,000	60 mm	12		1 m	180 °

Table Notes: Drag chain

#### Bend Radius

Stationary Min.	Installation Min.	Flexing Min.
1.2 in (30 mm)	2.6 in (66 mm)	65 mm (2.6 in)

Max. Pull Tension: 36 lbs (16 kg)

## Standards and Compliance

Environmental Suitability:	Indoor, Indoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	Horizontal flametest
AWM Compliance:	AWM 20549
Data Category:	Category 5
ISO/IEC Compliance:	ISO/IEC 11801 Ed. 2.2:2002/A2:2010/C1:2011
European Halogen Free Standards:	IEC 60754-1 - Halogen Amount = Pass
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

## Product Notes

Notes: Alpha Wire -\* P/N 74001 4C 22 AWG INDUSTRIAL ETHERNET PROFINET TYPE C SHIELDED ANSI/TIA-568-C.2 CAT5E VERIFIED FT2 CE ROHS (SEQ FOOTAGE)

## History

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

## Part Numbers

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### Variants

Item #	Color	Putup Type	Length
74001 GR002	Green	Reel	500 ft

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