



Product: [76002](#) 

XGIE, 4PR , Sol, FEP, 300 V RMS, CMR 105C, FT4, CSA C(UL) TYPE CMR, CSA FT4

Product Description

XGIE, 4 Pair 24 AWG (SOLID) BC - Bare Copper, FEP Insulation, Overall Aluminum/Polyester Shield, Tan TPE Outer Jacket, CMR 105C, FT4, CSA C(UL) TYPE CMR, CSA FT4 C(UL) TYPE CMR, FT4 UL FT4; CSA FT4

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
Pair(s)	24 AWG	Solid	BC - Bare Copper	4

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Pair(s)	FEP - Fluorinated Ethylene Propylene	0.044 in (1.1 mm)	White/Blue & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (Solid) TC
Braid	Tinned Copper (TC)	70%	

Outer Jacket

Material	Nom. Diameter	Ripcord
TPE - Thermoplastic Elastomer	0.325 in (8.26 mm)	Yes

Overall Cable Diameter (Nominal): 0.325 in (8.26 mm)

Electrical Characteristics

Electricals

Element	Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
Pair(s)	93.8 Ohm/km (28.6 Ohm/1000ft)	56 pF/m (17 pF/ft)	330 pF/100m	100 Ohm

Delay

Max. Delay Skew	Nom. Velocity of Prop.
45 ns/100m	70%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
1	2.4 dB/100m
4	4.9 dB/100m
8	6.9 dB/100m
10	7.8 dB/100m
16	9.9 dB/100m
20	11.1 dB/100m

25	12.5 dB/100m
31.25	14.1 dB/100m
62.5	20.4 dB/100m
100	26.4 dB/100m

Mechanical Characteristics

Temperature

UL Temperature	Operating
105°C	-50°C To +105°C

Bend Radius

Stationary Min.
2.6 in (66 mm)

Max. Pull Tension:	115 lbs (52.2 kg)
Bulk Cable Weight:	65.0 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL1666 Riser
NEC / UL Compliance:	Article 800, CMR
CEC / C(UL) Compliance:	CMR
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 5e
ISO/IEC Compliance:	ISO/IEC 11801 Cat 5e
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), 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)

Product Notes

Notes:	Alpha Wire -* P/N 76002 4PR 24 AWG XTRAGUARD(R) INDUSTRIAL ETHERNET (UL) C(UL) TYPE CMR 105C FT4 ANSI/TIA-568-C.2 CAT5E CE ROHS (SEQUENTIAL FOOTAGE MARKING)
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History

Update and Revision:	Revision Number: 0.112 Revision Date: 07-08-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length
76002 BK002	Black	Reel	500 ft
76002 BK001	Black	Reel	1,000 ft

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