



Product: [74002](#) 

XGIE, 2PR #26, Str, Polypropylene(PP), 300 V RMS, AWM/STYLE 20549 80C, CSA FT2

Product Description

XGIE, 2 Pair 26 AWG BC - Bare Copper, Polypropylene(PP) Insulation, Overall Aluminum/Polyester Shield, Black Polyurethane, Zero Halogen (ZH) Outer Jacket, AWM/STYLE 20549 80C, CSA FT2 FT2 UL FT2; CSA FT2; EN 60754-2 Acid Gas Generation

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)	26 AWG	7x34	BC - Bare Copper	2

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene	0.039 in (0.99 mm)	White/Blue & Blue, White/Orange & Orange

Cable Core

Description
2 pairs and 2 fillers twisted to cable core covered with a polyester foil

Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%
Braid	Tinned Copper (TC)	80%

Outer Shield Table Notes:	Aluminum outside
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Outer Jacket

Material	Nom. Diameter	Ripcord
PUR - Polyurethane (Halogen Free)	0.236 in (5.99 mm)	Yes

Outer Jacket1 Table Notes:	Flame Retardant Sheath
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Overall Cable Diameter (Nominal):	0.236 in (5.99 mm)
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Electrical Characteristics

Electricals

Element	Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
Pair(s)	140 Ohm/km (43 Ohm/1000ft)	56 pF/m (17 pF/ft)	160 pF/100m	100 Ohm

Delay

Max. Delay Skew	Nom. Velocity of Prop.
40 ns/100m	60%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. ACRF (ELFEXT) [dB]	Min. RL (Return Loss) [dB]
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0.772		67		19.4
1	3.2 dB/100m	65.3	63.8	20
4	6 dB/100m	56.3	51.8	23
10	9.5 dB/100m	50.3	43.8	25
16	12.1 dB/100m	47.2	39.7	25
20	13.6 dB/100m	45.8	37.8	25
25	15.3 dB/100m	44.3	35.8	24.3
31.25	17.1 dB/100m	42.9	33.9	23.6
62.5	24.8 dB/100m	38.3	27.9	21.5
100	32 dB/100m	35.3	23.8	20.1

Transfer Impedance

Frequency	Max. Transfer Impedance
1 MHz	Max. 15 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
450 V DC and 300 V AC

Mechanical Characteristics

Temperature

UL Temperature	Operating	Installation	Storage
80°C	-40°C to +80°C	-5°C To +50°C	-40°C To +80°C

Bend Radius

Stationary Min.	Installation Min.
1.0 in (25 mm)	2.0 in (51 mm)

Max. Pull Tension:	9 lbs (4.1 kg)
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Standards and Compliance

Environmental Suitability:	Indoor, Indoor, Sunlight Resistance, Oil Resistance
AWM Compliance:	AWM 20549
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA 568.2-D
ISO/IEC Compliance:	ISO/IEC 11801-1
CENELEC Compliance:	EN 50173-1
European Halogen Free Standards:	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 74002 2PR 26 AWG INDUSTRIAL ETHERNET SHIELDED ANSI/TIA-568-C.2 CAT5E VERIFIED CE ROHS (SEQ FOOTAGE)
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History

Update and Revision:	Revision Number: 0.68 Revision Date: 07-08-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length
74002 BK002	Black	Reel	500 ft

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