



**Product:** [76031](#) 

XGIE, 4PR #24, Str, Polyethylene, High Density, 600 V RMS, CMR 75C, CMX-Outdoor 75C, SUN RES, AWM/STYLE 2463 80C, CSA C(UL) TYPE CMX-Outdoor

## Product Description

XGIE, 4 Pair 24 AWG TC - Tinned Copper, Polyethylene, High Density Insulation, Overall Aluminum/Polyester Shield, Teal TPE Outer Jacket, CMR 75C, CMX-Outdoor 75C, SUN RES, AWM/STYLE 2463 80C, CSA C(UL) TYPE CMX-Outdoor C(UL) TYPE CMX-Outdoor

## 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	7x32	TC - Tinned Copper	4

#### Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene	0.046 in (1.2 mm)	White/Blue & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown

#### Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%
Braid	Tinned Copper (TC)	75%

#### Outer Jacket

Material	Nom. Diameter
TPE - Thermoplastic Elastomer	0.300 in (7.62 mm)

Overall Cable Diameter (Nominal):	0.300 in (7.62 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)	330 pF/100m	100 Ohm

#### Delay

Max. Delay Skew	Nom. Velocity of Prop.
45 ns/100m	66%

#### High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]
1	2.4 dB/100m	65.3	62.3	63.8	60.8	20
4	4.9 dB/100m	56.3	53.3	51.8	48.8	23
8	6.9 dB/100m	51.8	48.8	45.7	42.7	24.5
10	7.8 dB/100m	50.3	47.3	43.8	40.8	25
16	9.9 dB/100m	47.2	44.2	39.7	36.7	25
20	11.1 dB/100m	45.8	42.8	37.8	34.8	25

25	12.5 dB/100m	44.3	41.3	35.8	32.8	24.2
31.25	14.1 dB/100m	42.9	39.9	33.9	30.9	23.3
62.5	20.4 dB/100m	38.4	35.4	27.9	24.9	21.7
100	26.4 dB/100m	35.3	32.3	23.8	20.8	19

## Mechanical Characteristics

### Temperature

UL Temperature	Operating
80°C	-40°C To +80°C

### Bend Radius

Stationary Min.	Installation Min.
1.2 in (30 mm)	4.2 in (110 mm)

Max. Pull Tension:	8.7 lbs (3.9 kg)
Bulk Cable Weight:	46.0 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL 1581 (Vertical Tray), (VW-1)
NEC / UL Compliance:	Article 800, CMR, CMX-Outdoor
AWM Compliance:	AWM 2463
CEC / C(UL) Compliance:	CM, CMX-Outdoor
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-A3 P/N 76031 HIGH FLEX CAT5E SF/UTP 4P 24AWG E163860 C(UL)US CMX-OUTDOOR - CMR 75C SUN RES OR AWM 2463 80C 600V OIL RES II 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
76031 TL005	Teal	Reel	100 ft
76031 TL001	Teal	Reel	1,000 ft

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