



Product: [75033](#) 

XGIE, 2PR #22, Str, Polyethylene, High Density, 600 V RMS, CM 75C, CMX-Outdoor 75C, OIL RES I/II, SUN RES, AWM/STYLE 2463 80C, PLTC 75C, ITC 75C, CSA C(UL) TYPE CMX-Outdoor

Product Description

XGIE, 2 Pair 22 AWG (19/34) TC - Tinned Copper, Polyethylene, High Density Insulation, Overall Aluminum/Polyester Shield, Teal TPE Outer Jacket, CM 75C, CMX-Outdoor 75C, OIL RES I/II, SUN RES, AWM/STYLE 2463 80C, PLTC 75C, ITC 75C, 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)	22 AWG	19x34	TC - Tinned Copper	2

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene	0.059 in (1.5 mm)	White/Blue & Blue, Orange & White/Orange

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	0.310 in (7.87 mm)

Overall Cable Diameter (Nominal):	0.310 in (7.87 mm)
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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	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.
2.5 in (64 mm)	2.2 in (56 mm)

Max. Pull Tension:	160 lbs (73 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, CM, CMX-Outdoor, PLTC, ITC
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 75033 HIGH FLEX CAT5E SF/UTP 2P 22AWG E163860 C(UL)US CMX-OUTDOOR - CM 75C SUN RES OR TYPE PLTC OIL RES I/II OR TYPE ITC OR AWM 2463 80C 600V CE ROHS (SEQ FOOTAGE)
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History

Update and Revision:	Revision Number: 0.38 Revision Date: 07-08-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length
75033 TL005	Teal	Reel	100 ft
75033 TL001	Teal	Reel	1,000 ft

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