



Product: [76021](#) 

XGIE, 4PR #24, Str, Polypropylene(PP), 300 V RMS, CMR 75C, FT4, CSA C(UL) TYPE CMR, CSA FT4

Product Description

XGIE, 4 Pair 24 AWG BC - Bare Copper, Polypropylene(PP) Insulation, Overall Aluminum/Polyester Shield, Tan TPE Outer Jacket, CMR 75C, 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.
------------------------	--

Construction Details

Conductor

Element	Size	Stranding	Material	No. of Pairs
Pair(s)	24 AWG	7x32	BC - Bare Copper	4

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Pair(s)	PP - Polypropylene	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	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

Outer Jacket

Material	Nom. Diameter	Ripcord
TPE - Thermoplastic Elastomer	0.305 in (7.75 mm)	Yes

Overall Cable Diameter (Nominal):	0.305 in (7.75 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
75°C	-50°C To +75°C

Bend Radius

Stationary Min.
2.4 in (61 mm)

Max. Pull Tension:	117 lbs (53.1 kg)
Bulk Cable Weight:	40.0 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 76021 4PR 24 AWG XTRAGUARD(R) INDUSTRIAL ETHERNET (UL) C(UL) TYPE CMR 75C FT4 ANSI/TIA-568-C.2 CAT5E CE ROHS (SEQUENTIAL FOOTAGE MARKING)
--------	---

History

Update and Revision:	Revision Number: 0.30 Revision Date: 07-08-2026
----------------------	---

Part Numbers

Variants

Item #	Color	Putup Type	Length
76021 BK002	Black	Reel	500 ft
76021 BK001	Black	Reel	1,000 ft

© 2026 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.