



Product: [70093E](#)

Life Cycle Status: Discontinued

IE 5E, 2PR #26 Str BC, PO ins, SF/UTP, PUR HF jkt, UL AWM 20549

Product Description

IE 5E, 2 pair AWG 26 Bare Copper - Stranded, Polyethylene insulation,SF/UTP - Overall Braid + Foil shielding, PUR Halogen Free jacket , UL AWM 20549

Technical Specifications

Product Overview

Suitable Applications:	harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.
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Construction Details

Conductor

Size	Stranding	Material	No. of Pairs	No. of Elements
26 AWG	7x0.16 mm	BC - Bare Copper	4	8

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.98 mm (0.039 in)	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)	
Braid	Tinned Copper (TC)	85%

Table Notes:	Aluminum outside
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Outer Jacket

Material	Nom. Diameter
PUR - Polyurethane (Halogen Free)	6.4 mm (0.25 in)

Table Notes:	Flame Retardant Sheath
Overall Cable Diameter (Nominal):	6.4 mm (0.25 in)

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
140 Ohm/km	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. ACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. RL (Return Loss) [dB]	Min. TCL [dB]	Min. ELTCTL [dB]
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1	3.2 dB/100m	65.3	62.1	64	23	40	35
4	6 dB/100m	56.3	50.3	52	23	34	23
10	9.5 dB/100m	50.3	40.8	44	25	30	15
16	12.1 dB/100m	47.2	35.2	39.9	25	28	10.9
20	13.5 dB/100m	45.8	32.2	38	25	27	9
31.25	17.1 dB/100m	42.9	25.8	34.1	23.3	25.1	5.5
62.5	24.8 dB/100m	38.4	13.6	28.1	20.7	22	
100	32 dB/100m	35.3	3.3	24	19	20	

Table Notes:	Reference standard: IEC 61156-5
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Transfer Impedance

Frequency	Max. Transfer Impedance
1 Mhz	Max. 10 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
Table Notes:	Coupling Attenuation

Voltage

UL Voltage Rating	Voltage Rating
UL AWM 2464: 300 A.C.	72 V DC

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-25°C to +80°C	-5°C To +50°C	-40°C to +80°C

Bend Radius

Stationary Min.	Installation Min.
25 mm (0.98 in)	50 mm

Standards and Compliance

Environmental Suitability:	Indoor
AWM Compliance:	AWM 2464
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA 568.2-D
ISO/IEC Compliance:	ISO/IEC 11801-1
CENELEC Compliance:	EN 50173-1, Segregation class according EN50174-2 = d
European Halogen Free Standards:	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

History

Update and Revision:	Revision Number: 0.144 Revision Date: 06-25-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
70093E.00500	Blue	Reel	500 m	8719605011688

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