



Product: [50105HFT](#) 

Belden High flex 4P26AWG CAT5E SF/UTP industrial ethernet cable

Product Description

Belden High flex CAT5e industrial ethernet 4P 26AWG cable, oil resistant, 80C 300V FT2 ROHS

Technical Specifications

Product Overview

Suitable Applications:	Internal wiring of electronic equipment and appliances.
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Construction Details

Conductor

Element	Size	Material
Pair(s)	26 AWG	BC - Bare Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	1.0 mm (0.039 in)	White/Blue, Blue, White/Orange, Orange, White/Green, Green, White/Brown, Brown

Outer Shield

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

Outer Jacket

Material
PUR - Polyurethane

Overall Cable Diameter (Nominal):	7.1 mm (0.28 in)
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Electrical Characteristics

Electricals

Max. Conductor DCR
145 Ω /km @ 20°C

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]	Min. NEXT [dB]	Min. RL (Return Loss) [dB]	Nom. Characteristic Impedance [Ohm]
1	3.4	65.3	20	100
4	6.8	56.3	23	100
8	9.6	51.8	24.5	100
10	10.8	50.3	25	100
16	13.7	47.2	25	100
20	15.4	45.8	25	100
25	17.4	44.3	24.3	100
31.25	19.5	42.9	23.6	100
62.5	28.3	38.4	21.5	100
100	36.6	35.3	20.1	100

High Frequency Table Notes:	Max. Transmission Length : 60 M
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Voltage

UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

Operating
-40 to + 80

Table Notes:	Flexibility.:Trailing Chain: ≥ 10 Million Cycles, Chain Distance: 1000 mm, Bending radius: 100mm, Speed: 30 Cycles/min. Torsion: ≥ 10 Million Cycles, length: 1000 mm, ±180°
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Standards and Compliance

Environmental Suitability:	UV Resistance, Oil Resistance
Flammability / Reaction to Fire:	FT2
AWM Compliance:	AWM 20549
Data Category:	Category 5e
European Halogen Free Standards:	IEC 60754-1 - Halogen Amount = ≤0.5%
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.12 Revision Date: 07-15-2026
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