

Product: [50105HF](#) 

Belden High flex CAT5e industrial ethernet cable



Product Description

Belden High flex CAT5e industrial ethernet 4P 26AWG cable, oil resistant, 80C, 30V, VW-1 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

Inner Jacket Table Notes: All Four Pairs laid up together on a filler wrapped by PET & Wrap tape binder

Outer Shield

Shield Type	Material	Coverage	Notes
Braid	Tinned Copper (TC)	85%	Drain wire 25AWG(7x33) TC is used along with TC wire braid

Outer Jacket

Material
PVC - Polyvinyl Chloride

Overall Cable Diameter (Nominal): 6.7 ± 0.3 mm

Electrical Characteristics

Electricals

Max. Conductor DCR
149 Ω/km @ 20°C

High Frequency

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

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

UL Voltage Rating	Breakdown Voltage
30 V	500V ac/5min

Mechanical Characteristics

Temperature

Operating
-20 to + 80

Standards and Compliance

Flammability / Reaction to Fire:	VW-1
AWM Compliance:	AWM 20276
CEC / C(UL) Compliance:	.
Data Category:	Category 5e
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	Flexibility,:Trailing Chain: ≥ 1 Million Cycles, Chain Distance: 350 mm, Bending radius: 50mm, Acceleration: 10m/s2, Speed: 70 Cycles/min.
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History

Update and Revision:	Revision Number: 0.30 Revision Date: 02-26-2026
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