



Product: [50106HSF](#)

BELDEN Industrial Ethernet CAT6, SF/UTP, 4x2x 0.15mm² Stranded, PO/PVC, High-Flex Cable

Product Description

BELDEN Industrial Ethernet CAT6, SF/UTP, 4x2x 0.15mm² Stranded Bare Copper Conductors, Polyolefin Insulation, Overall foil shield plus tinned copper braid shield, PVC Jacket, High-Flex Cable, 10 million flex cycles (Drag Chain), AWM 2095, 80C, 300V, FT2

Technical Specifications

Product Overview

Suitable Applications:	Ethernet: 10GBase-T, 100Base-TX, 1000Base-T
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Construction Details

Conductor

Element	Size	Material
Pair(s)	0.15 mm ²	BC - Bare Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PO - Polyolefin	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	Polyester + Bi-Laminate (Alum+Poly)	
Braid	Tinned Copper (TC)	80%

Outer Jacket

Material	
PVC - Polyvinyl Chloride	
Overall Cable Diameter (Nominal):	7.3 mm (0.29 in)

Electrical Characteristics

Electricals

Max. Conductor DCR	Nom. Characteristic Impedance
145 Ω/km @ 20°C	100 Ohm

Table Notes:	Max. Transmission Length a) Link Class: Class E (Data Application upto 250 MHz), Channel: 74m, Permanent: 63m; Nominal velocity of Propagation: 72%
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Voltage

UL Voltage Rating	Breakdown Voltage
300 V	2000V AC/Min.

Mechanical Characteristics

Temperature

Operating
-20 to + 80

Table Notes:	Drag Chain Test (5 million cycles): a) Bending Radius: Max. 12.5D, Speed: Min. 30 Cycles/Min., Chain Length: 1M ; Drag Chain Test (10 million cycles): a) Bending Radius: Max. 14.5D, Speed: Min. 30 Cycles/Min., Chain Length: 1M
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Standards and Compliance

AWM Compliance:	AMW 2095
CEC / C(UL) Compliance:	AWM I/II 80C 300V
Data Category:	Category 6
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)

History

Update and Revision:	Revision Number: 0.18 Revision Date: 08-13-2024
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