



Product: NH50115UFL ☑

DataTuff™ Industrial Ethernet CAT5e 4x2x23AWG/1 U/FTP Fire Resistant

Product Description

DataTuff™ Industrial Ethernet CAT5e 4x2x23AWG/1 U/FTP Fire Resistant

Technical Specifications

Product Overview

Suitable Applications: This Category 5e Cable is a cable standard for Gigabit Ethernet, capable to continue transmitting data even when being directly attacked by fire.

Construction Details

Conductor

Size	Stranding	Stranding Class	Material	No. of Pairs	No. of Elements
23 AWG	Solid	Class 1	BC - Bare Copper	4	8

Insulation

Material	Nom. Insulation Diameter	Color Code	Notes
PE - Polyethylene	1.58 mm (0.0622 in)	Blue & White with Blue Strips, Orange & White with Orange Strips, Green & White with Green Strips, Brown & White with Brown Strips	Fire Protection Barrier: Mica glass Tape(MGT)

Inner Shield

Shield Type	Material	Drainwire Type	Notes
Таре	Bi-Laminate (Alum+Poly)	26 AWG (Solid) TC	All 4 Pairs laid up together & binded by Fire Protection Barrier: Mica Glass Tape(MGT)

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	10.80 mm (0.4252 in)

Electrical Characteristics

Electricals

Max. Conductor DCR	Nom. Characteristic Impedance
73.2 Ohm/km @ 20 Deg. C	100 Ohm

Delay

Max. Delay Skew 45 ns/100m

High Frequency

1 2.04 65.3 62.3 20 4 4.05 56.3 53.3 23	Loss) [dB]
4 4.05 56.3 53.3 23	
8 5.77 51.8 48.8 24.5	
10 6.47 50.3 47.3 25	
16 8.25 47.2 44.2 25	
20 9.27 45.8 42.8 25	
25 10.42 44.3 41.3 24.3	

30	11.47	43.1	40.1	23.8
31.25	11.72	42.9	39.9	23.6
62.5	16.99	38.4	35.4	21.5
100	21.98	35.3	32.3	20.1

Mechanical Characteristics

Temperature

Operating -40°C to + 80°C

Standards and Compliance

Environmental Suitability:	UV Resistance, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-3-22, IEC 60331-23
AWM Compliance:	AWM 21130
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA 568.2-D
European Halogen Free Standards:	IEC 60754-1 - Halogen Amount = 0.5 %, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 10 μS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3

History

Update and Revision:	Revision Number: 0.2 Revision Date: 09-03-2025

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