



Product: [NH50115UU](#) 

DataTuff™ Industrial Ethernet CAT5e 4x2x22AWG/1 U/UTP Fire Resistance classification (PH120)

Product Description

DataTuff™ Industrial Ethernet CAT5e 4x2x22AWG/1 U/UTP Fire Resistance classification (PH120)

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.
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Construction Details

Conductor

Size	Stranding	Material	No. of Pairs
22 AWG	Solid	BC - Bare Copper	4

Insulation

Material	Nom. Insulation Diameter	Color Code	Notes
PE - Polyethylene	1.03 mm (0.0406 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

Notes
All 4 pairs laid up together over a cross filler & binded by Mica Glass Tape(MGT)

Outer Jacket

Material	
LSZH - Low Smoke Zero Halogen (Flame Retardant)	
Overall Cable Diameter (Nominal):	9.6 mm (0.38 in)

Electrical Characteristics

Electricals

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

Delay

Max. Delay	Max. Delay Skew
536 ns/100m	45 ns/100m

Mechanical Characteristics

Temperature

Operating
-40°C to +60°C

Standards and Compliance

Environmental Suitability:	UV Resistance, Oil Resistance
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Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-3-22, IEC 60331-23, EN 50200 PH120
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, IEC 61034-2 - Smoke Density Min. Transmittance = 60%
Other Standard Compliance(s):	BS EN 50289-4-16

History

Update and Revision:	Revision Number: 0.24 Revision Date: 03-12-2026
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