Essential-5 Cable

ESS CAT5E U/UTP CMX 4P 24AWG PT 305 I/O

Communications Department nexans.brazil@nexans.com

Nexans Ref.: N100.561231 Country Ref.: 17520 EAN 13: 7899907130209

Construction U/UTP Compliancy with the latest category 5e standards Supports Class

D applications up to 1Gbits

DESCRIPTION

The Essential-5e Nexans cable line is the 100MHz bandwidth offer for class D applications up to 1Gbits. Nexans ESSENTIAL 5e cables are designed for horizontal applications in structured cabling networks to connect the user outlet to the administration panel or to interconnect administration panels. Their application is limited to 100MHz bandwidth, Class D applications.

APPLICATION

- FAST ETHERNET 100BASE-TX
- GIGABIT ETHERNET 1000BASE-T
- TOKEN RING (100 Mbps)
- ATM LAN (155 Mbps & 622 Mbps)
- ISDN
- POE POWER OVER ETHERNET
- POF+ POWFR OVFR FTHERNET PLUS
- ANALOGUE AND DIGITAL COMMUNICATION FOR VIDEO AND VOICE

CONSTRUCTION

- · Category 5e U/UTP;
- PVC: CMX | CM or LSZH;
- 4 twisted pairs matching the colour pattern Blue / Light Blue, Orange / White, Green / Light Green, Brown / Light Brown, as for pair insulation.
- Composed of bare copper conductors, insulated in high density thermoplastic polyethylene.

INSTALATION

Environment:

Indoor - non-aggressive (7 standard colors: Blue, Red, Grey, Black, White, Yellow, Green e other colours on request)

Indoor/Outdoor- non-aggressive (only the CMX black shealth)

APPLICABLE STANDARDS

International:



Ambient dynamic operating temperature, range -20 - 60 °C



Bending factor installed 4 (xD)



Electro magnetic interference resistance



IEC 60332-1



Inst. temp. range



All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial docu indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.



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Pssential

STANDARDS

International IEC 61156-5; ISO/ IFC 11801

National ANSI/TIA 568.2-D

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Directive RoHS

The product complies with the RoHS Directive by restricting the use of heavy metals in the manufacture of products and preservation of the environment.

National:

- ABNT NBR 14565
- ABNT NBR 14703
- ABNT NBR 14705

CERTIFICATIONS

- UL Listed
- ANATEL

PACKAGING

- Box of 100m (CMX)
- Box of 305m (CMX / CM / LSZH)

CABLE LABEL

Indoor:

NEXANS ESSENTIAL CABLE CATEGORY 5e U/UTP 24AWG 4PAIRS RoHS COMPLIANT 75C ANSI/TIA 568.2-D "SEMANA/ANO" "1 a 305 m" ANATEL yyyyy-yy-yyyyy

x:CMX | CM | LSZH

yyyy-yy-yyyyy: CMX | CM: 02082-11-05519 yyyy-yy-yyyyy: LSZH: 02084-11-05519

Indoor/Outdoor:

NEXANS ESSENTIAL CABLE CATEGORY 5e U/UTP 24AWG 4PAIRS CMX RoHS COMPLIANT 75C ANSI/TIA 568.2-D INTERNO/EXTERNO "SEMANA/ ANO" "1 a 305 m" ANATELyyyyy-yy-yyyyy

ууууу-уу-ууууу:00242-12-05519

WARRANTY

• 02 years (Consult our 25 years extended warranty program).



Ambient dynamic operating temperature, range



Bending factor installed 4 (xD)



Electro magnetic interference resistance



IEC 60332-1



Inst. temp. range



U.V resistance

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Contact

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CHARACTERISTICS

Construction characteristics	
Type of cable	U/UTP
Outer sheath	PVC - CMX
Colour	Black
Screen	Unshielded
Dimensional characteristics	
Approximate weight	25.7 kg/km
Conductor cross-section (AWG/KCMIL)	24
Diameter over insulation	0.9 mm
Nominal outer diameter	4.8 mm
Number of pairs	4
Electrical characteristics	
Capacitance unbalance pair to ground at 1kHz	330 pF/100m
Characteristic impedance	100 Ohm
Max. DC resistance of the conductor at 20°C	93.8 Ohm/km
Mutual capacitance at 1kHz	5.6 nF/100m
Nominal velocity propagation	69 %
Resistance unbalance DC max % of loop resistance	5 %
Transmission characteristics	
Propagation delay, max. 100 MHz	545 ns/100m
Skew	45 ns/100m
Mechanical characteristics	
Maximum operating pulling force	110 N
Usage characteristics	
Length	305 m
Packaging	Вох
Installation type	Indoor/Outdoor
Ambient dynamic operating temperature, range	-20 - 60 °C
Bending factor when installed	4 (xD)
Category	Cat. 5e
Electro magnetic interference resistance	No
Fire retardant	IEC 60332-1
Installation temperature, range	0 - 50 °C
U.V resistance	Yes



Ambient dynamic operating temperature, range -20 - 60 °C



Bending factor installed 4 (xD)



Electro magnetic interference resistance **No**



Fire retardant IEC 60332-1



Inst. temp. range 0 - 50 °C



U.V resistance

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