

U5E-C0424-IG

Description

Osilan's Cat5e cable solutions are flexible and cost-effective solutions that fully comply with Category 5e/Class D standards. Cat5e cables are available in U/UTP, F/UTP, SF/UTP shielded cable and with PVC or LSZH sheath, ideal for most of today's LAN network requirements and specifications with designs that support 100 MHz applications.

Features

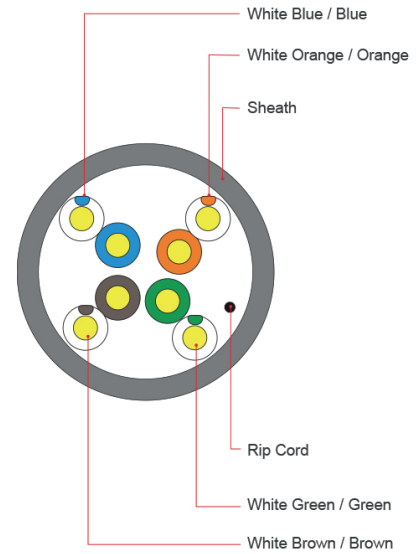
- Category 5e U/UTP copper cable with channel characterized to 100 MHz.
- 4 Pairs, 24 AWG solid copper conductors insulated with PE.
- Supports IEEE 802.bt type 3,4 & PoE++ Standards.
- PVC Sheath.
- 25-years system warranty.

Application

- Suitable for all category 5e backbone and horizontal Cabling applications.
- 10 Base-T (Ethernet), 100 Base-T (Fast Ethernet), 1000 Base-T (Gigabit Ethernet).
- 155Mb/s ATM, 622Mb/s ATM, 1.2Gb/s ATM, Token Ring 4/16 & ISDN.

Standards

- ANSI/TIA-568-C.2 Category 5e
- EN 50173-1
- ISO 11801 2nd Edition
- EN 50288-6-1



Technical Specifications

Tensile Strength	Min. 9 MPa
Cable Outer Diameter	6.3mm(+/-0.4mm)
Insulation	HDPE, Thickness 0.95 mm(Nominal)
Cable Weight	31 Kg/Km (Nominal)
Temperature (Installation)	-30°C to +50°C
Temperature (Operation)	-20°C to +75°C

Mechanical and Electrical Specification

Bend radius Installation	42 mm
DC resistance	Max. 14.5 Ω/100m at 20° C
Insulation resistance	Min. 5000 MΩ/Km at 20° C
Mutual capacitance Nom	5.6 nF/100 m at 1kHz
Capacitance unbalance	(pair to ground) Max. 160 pF/100 m at 1kHz
Characteristic impedance	(1 - 250MHz) (100 ± 15) Ω
Nominal velocity of propagation	60%
Dielectric Test voltage	(DC, 1 min.) 2.5 kV/1 min.
Delay Skew	40 ns/100 m (Max.)

Frequency (MHz)	RL ≥ dB	ATT(20°C) ≤ dB	NEXT ≥ dB	PHASE DELAY ≤ ns
1	20.0	3.2	65.3	570.00
4.0	23.0	6.0	56.3	552.00
10.0	25.0	9.5	50.3	545.73
16.0	25.0	12.1	47.2	543.38
20.0	25.0	13.5	45.8	540.00
31.25	23.3	17.1	42.9	539.05
62.5	20.7	24.8	38.4	538.20
100	19.0	32.0	35.3	537.44

Frequency (MHz)	PSNEXT ≥ dB	ELFEXT ≥ dB	PSELFEXT ≥ dB
1	62.3	62.1	59.1
4.0	53.3	50.3	47.3
10.0	47.3	40.8	37.8
16.0	44.2	35.2	32.2
20.0	42.8	32.2	29.2
31.25	39.9	25.8	22.8
62.5	35.4	13.6	10.6
100	32.3	3.3	0.3

ORDERING INFORMATION

Part No.	Description	Packing
U5E-C0424-IG	Category 5e U/UTP Cables, 4Pairs, 24AWG Solid Copper, PVC Sheath, Colour International Grey	305m Box

* More colour are available.