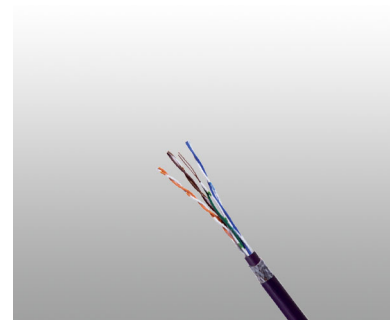




Cat5E UTP/FTP Armoured Data Cable

Applications

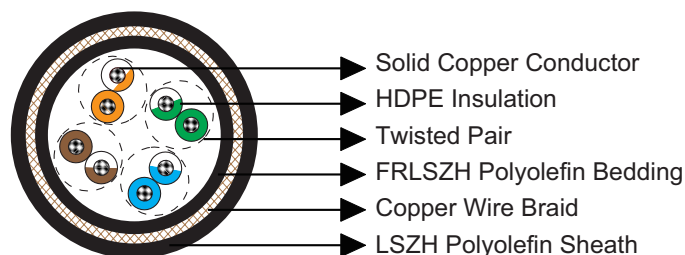
Cat5E Cable is a cable standard for Gigabit Ethernet and other network protocol, suitable for basic voice and data installations up to 100 MHz. In addition, these cables are with copper wire braid armoured & flame retardant mud resistant outer sheath, providing additional mechanical protection still maintaining the flexibility of the cable.



Standards

- IEC 60332-3-22
- IEC 60754-1,2
- IEC 61034-1,2
- NEK 606:2004

Construction



- **Conductors:** 24AWG solid bare copper.
- **Insulation:** HDPE.
- **Twinning:** Two coloured insulated conductors twisted together to form a pair.
- **Bedding:** Flame retardant, low smoke and halogen-free polyolefin, coloured black.
- **Armour:** 0.2/0.3mm copper wire braid.
- **Outer Sheath:** Low smoke and halogen-free polyolefin.

Optional

Cat5E F/UTP: These cables have collective shielding of aluminium/Polyester tape with drain wire.

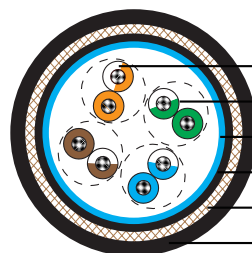
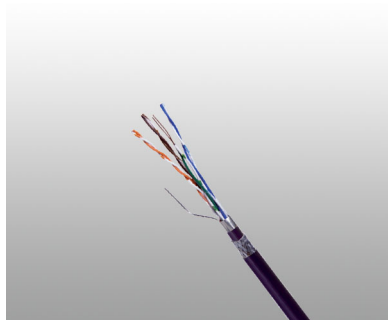
Cat5E SF/UTP: These cables have double collective shieldings of aluminium/Polyester tape & copper wire braid with drain wire.



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Any inquiries, please feel free to contact

enquiry@shipboard-cables.com or sales@shipboard-cables.com



- Solid Copper Conductor
- HDPE Insulation
- AL/polyester Tape + Drain Wire
- FRLSZH Polyolefin Bedding
- Copper Wire Braid
- LSZH Polyolefin Sheath

Electrical Characteristics

AWG		24
Nominal Conductor Diameter	mm	0.53
Maximum DC Resistant@20°C	Ω/100m	9.38
Maximum DCR Unbalance	%	5
Maximum Mutual Capacitance	pF/m	55.8
Maximum Capacitance Unbalance	pF/100m	330
Characteristic Impedance@1-100MHz	Ω	100+/-15
Maximum Propagation Delay Skew	ns/100m	45

FREQ MHz	Maximum Attenuation dB/100m	Minimum NEXT dB	Minimum PSNEXT dB	Minimum ELFEXT dB/100m	Minimum PSELFEXT dB/100m	Minimum RL dB
0.772	1.8	67.0	64.0	66.0	63.0	—
1	2.0	65.3	62.3	63.8	60.8	20.0
4	4.1	56.3	53.3	51.7	48.7	23.0
8	5.8	51.8	48.8	45.7	42.7	24.5
10	6.5	50.3	47.3	43.8	40.8	25.0
16	8.2	47.3	44.3	39.7	36.7	25.0
20	9.3	45.8	42.8	37.7	34.7	25.0
25	10.4	44.3	41.3	35.8	32.8	24.3
31.25	11.7	42.9	39.9	33.9	30.9	23.6
62.5	17.0	38.4	35.4	27.8	24.8	21.5
100	22.0	35.3	32.3	23.8	20.8	20.1

Mechanical and Thermal Properties

- Bending Radius: 8×OD (during installation); 4×OD (fixed installed)
- Temperature Range: -30°C ~ +75°C



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Dimensions and Weight

Construction No. of elements×No. of cores in element×Conductor diameter(mm)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
4×2×0.53	0.2	0.8	1.14	10.1	179

