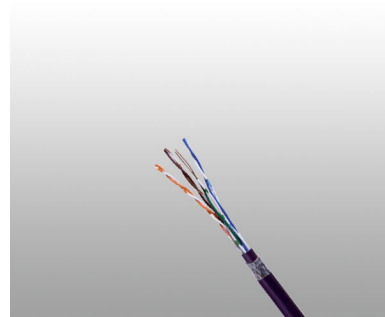




Cat6 UTP/FTP Armoured Data Cable

Applications

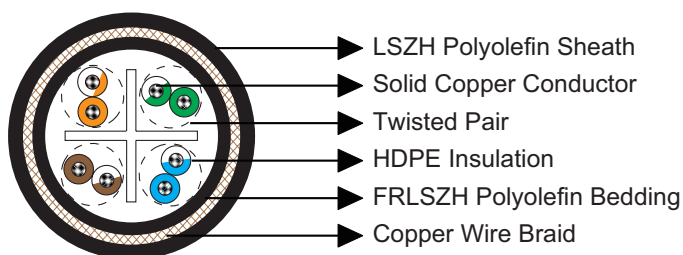
Cat6 Cable is a cable standard for Gigabit Ethernet and other network protocol, suitable for 10BaseT, 100BaseTx & 1000BaseT (Gigabit Ethernet) application. In addition, these cables are with copper wire braid armoured & flame retardant mud resistant outer sheath, providing additional mechanical protection 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:** 23AWG 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

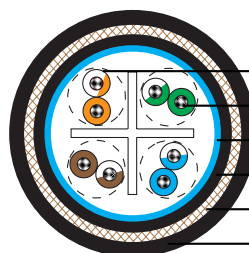
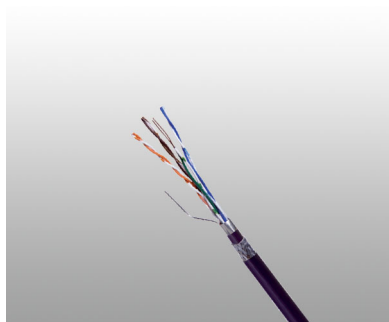
Cat6 F/UTP: These cables have collective shielding of aluminium/Polyester tape with drain wire.

Cat6 SF/UTP: These cables have double collective shieldings of aluminium/Polyester tape & copper wire braid with drain wire.



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



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

Electrical Characteristics

AWG		23
Nominal Conductor Diameter	mm	0.58
Maximum DC Resistant@20°C	$\Omega/100m$	7.5
Maximum DCR Unbalance	%	3
Maximum Mutual Capacitance	pF/m	5.6
Maximum Capacitance Unbalance	pF/100m	330
Characteristic Impedance@1-100MHz	Ω	100+/-15
Maximum Propagation Delay Skew	ns/100m	18

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	76.0	74.0	70.0	67.0	—
1	2.0	74.3	72.3	67.8	64.8	20.0
4	3.8	65.3	63.3	55.7	52.7	23.0
8	5.3	60.8	58.8	49.7	46.7	24.5
10	6.0	59.3	57.3	47.8	44.8	25.0
16	7.6	56.3	54.3	43.7	40.7	25.0
20	8.5	54.8	52.8	41.7	38.7	25.0
25	9.5	53.3	51.3	39.8	36.8	24.3
31.25	10.7	51.9	49.9	37.9	34.9	23.6
62.5	15.4	47.4	45.4	31.8	28.8	21.5
100	19.8	44.3	42.3	27.8	24.8	20.1
155	25.2	41.5	39.5	23.9	20.9	18.8
200	29.0	39.8	37.8	21.7	18.7	18.0
250	32.8	38.3	36.3	19.8	16.8	17.3



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Mechanical and Thermal Properties

- Bending Radius: $8 \times OD$ (during installation); $4 \times OD$ (fixed installed)
- Temperature Range: $-30^{\circ}\text{C} \sim +75^{\circ}\text{C}$

Dimensions and Weight

Construction No. of elements $\times$ No. of cores in element $\times$ Conductor diameter (mm)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
4 $\times$ 2 $\times$ 0.58	0.23	0.8	1.14	11.6	214

