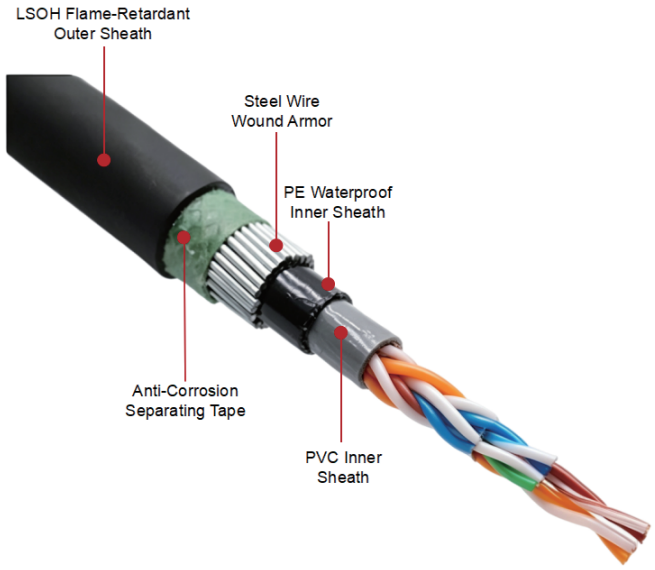
SEC-UTP-CAT6-LSOH CAT6 UTP Armoured Cable



Characteristics

- Adopts 23AWG solid bare copper conductors for stable transmission and low signal attenuation.
- HDPE insulation features corrosion resistance, anti-aging property and good tensile strength.
- Equipped with PVC+PE double-layer waterproof lining layer, moisture-proof and suitable for humid environments such as underground and outdoor.
- Built-in steel wire armouring, resisting compression and rodent damage against mechanical impact.
- Outer jacket made of low-smoke halogen-free polyolefin, eco-friendly, low-smoke & non-toxic during combustion with good flame retardancy.

Application

- Telecommunications
- Local area network
- Fiber to the home
- Fiber optical sensors
- Testing instruments

Product Description

The SEC-UTP-CAT6-LSOH-Armoured Cable is a CAT6-compliant Gigabit Ethernet cable with a working frequency up to 250 MHz for voice and data transmission. It features 23AWG solid bare copper conductors insulated with HDPE and constructed in a twisted-pair design. The cable incorporates a lining layer of grey PVC plus black PE waterproof sheath, together with steel wire armouring to deliver reliable mechanical protection against compression and rodent damage. Its outer jacket is made of low-smoke halogen-free polyolefin, offering flexibility and flame retardancy. It is suitable for high-speed network cabling in harsh environments.

General Parameters

Item		Specification
Mode		SEC-UTP-CAT6-LSOH-Armoured Cable
AWG		23
Operating Temperature		-30℃ ~ +75℃
Bending Radius		Installation In Progress: 8×OD Fixed Installation: 4×OD
Nominal Conductor Diameter	mm	0.57
Maximum DC Resistance @ 20℃	Ω/100m	6.78
Maximum DCR Imbalance	%	5
Maximum Mutual Capacitance	pF/m	55.8
Maximum Capacitance Imbalance	pF/100m	330
Characteristic Impedance @1-100MHz	Ω	100+/-15
Maximum Transmission Delay Deviation	ns/100m	45

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Frequency MHz	Maximum Attenuation (dB/100m)	Minimum NEXT (dB)	Minimum PSNEXT (dB)	Minimum ELFEXT （dB/100m）	Minimum PSELFEXT (dB/100m)	Minimum RL
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

Size And Weight

Units x Cores Per Unit x Conductor Diameter (mm)	Nominal Insulation Thickness (mm)	Nominal Sheath Thickness (mm)		Nominal Outer Diameter (mm)	Weight (kg/km)
		Inside	Outside		
4 x 2 x 0.57	0.23	0.8	1.14	12	180

*Desings and specifications are subject to change without notice.
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