



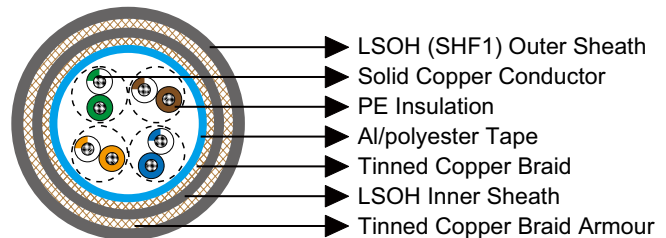
Armoured Cat 5e SF/UTP 24AWG

Application

These Cat5e SF/UTP cables are manufactured in accordance with IEC 61156-5 requirements, can support all Class D applications like Ethernet, Fast Ethernet, Gigabit Ethernet, suitable for basic voice and data installations up to 100MHz.

Standards

- EN 50288
- ISO 11801
- IEC 61156-5
- IEC 60332-1
- IEC 60754-1/2
- IEC 61034



Approvals:

BV Certification(33493/B0 BV)

Construction

- Conductors: Bare copper conductor.
- Insulation: PE.
- Twining: Two coloured insulated conductors twisted together to form a pair.
- Overall Screen1: Al/polyester tape.
- Overall Screen2: Tinned copper wire braid.
- Inner Sheath: LSOH.
- Armour: Tinned copper wire braid.
- Outer Sheath: LSOH (SHF1).

Core Identification

Pair 1: White/Blue, Blue
Pair 2: White/Orange, Orange
Pair 3: White/Green, Green
Pair 4: White/Brown, Brown



Electrical Properties

Maximum Loop Resistance	Ω/km	190
Maximum Resistance Unbalance		2%
Minimum Insulation Resistance	MΩ.km	1000
Nominal Capacitance @800Hz	nF/km	48
Maximum Capacitance Unbalance (pair to ground)	pF/km	1500
Characteristic Impedance @1-100MHz	Ω	100 ± 15
Nominal Velocity of Propagation		ca. 67%
Maximum Propagation Delay	ns/100 m	535
Maximum Delay Skew	ns/100 m	20
Maximum Transfer Impedance @1MHz	mΩ /m	20
Maximum Transfer Impedance @10MHz	mΩ /m	20
Maximum Transfer Impedance @30MHz	mΩ /m	30
Maximum Transfer Impedance @100MHz	mΩ /m	60
Minimum Coupling Attenuation	dB	75

Nominal Transmission Characteristics @20°C

F	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ELFEXT	PS-ELFEXT	Return Loss
MHz	dB/100m	dB	dB	dB/100m	dB/100m	dB/100m	dB/100m	dB
1	1.9	71	68	69.1	66.1	68	65	20
4	3.7	62	59	58.3	55.3	56	53	23
10	6.0	56	53	50	47.0	48	45	25
16	7.6	53	50	45.4	42.4	44	41	25
20	8.5	51	48	42.5	39.5	42	39	25
31.2	10.7	49	46	38.3	35.3	38	35	24
62.5	15.7	44	41	28.2	25.3	32	29	22
100	19.8	41	38	21.2	18.2	28	25	20
125.0	22.3	40	37	17.7	14.7	26	23	19
155.5	24.2	38	35	13.8	10.8	24	21	
175.0	25.7	37	34	11.3	8.3	23	20	
200.0	27.5	36	33	8.5	5.5	22	19	
250.0	29.2	35	32	5.8	2.8	20	17	
300.0	32.0	34	31	2.0	-1.0	16	13	

Mechanical and Thermal Properties

Bending Radius: 8 × OD (during installation); 4 × OD (fixed installed)

Temperature Range: -20°C ~ +60°C

Dimensions and Weight

Part No.	Construction No. of elements×No. of cores in element×Cross section(mm²)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
			Inner	Outer		
MLN-SF/UTPCAT5E4P24 CWB	4×2×24AWG	0.25	0.74	1.22	10.5	173

