



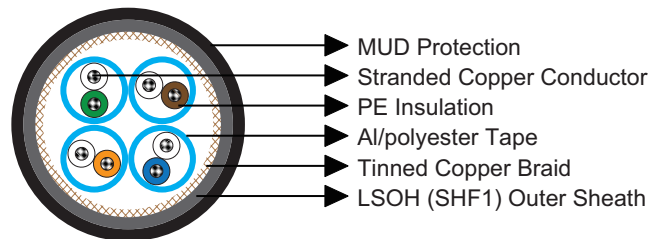
Mud Resistant Cat 7 S/FTP 0.27 mm²

Application

These Cat7 S/FTP cables are manufactured in accordance with IEC 61156-5 requirements, can support all Class F applications like Ethernet, Fast Ethernet, Gigabit Ethernet, suitable for voice, data, CATV and sharing application installations up to 600MHz. These cables have additional flame retardant, halogen-free, low smoke MUD protecting outer sheaths.

Standards

- EN 50173-1
- EN 50288-4-1
- ISO/IEC 11801
- IEC 61156-5
- IEC 60332-3-24
- IEC 60754-2
- IEC 61034



Construction

- Conductors: Stranded copper conductor.
- Insulation: PE.
- Twinning: Two coloured insulated conductors twisted together to form a pair.
- Individual Screen: Al/polyester tape.
- Overall Screen: Tinned copper wire braid.
- Inner Sheath: Oil resistant, flame retardant and halogen free LSOH (SHF1).
- Outer Sheath: MUD protecting.

Core Identification

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



Electrical Properties

Characteristic Impedance(1-250MHz)	Ω	100±15
Characteristic Impedance(100-500MHz)	Ω	100±22
Nominal Velocity of Propagation(NVP)		79%
Maximum Mutual Capacitance	nF/100m	5.6
Maximum Resistance Unbalance		5%
Maximum Propagation Delay Skew(1-125MHz)	ns/100m	30
Maximum Propagation Delay@100MHz	ns/100m	536
Voltage Rating	V rms	60

Nominal Transmission Characteristics @20°C

FREQ MHz	NEXT dB/100m	Attenuation dB/100m	RL dB/100m	ACR dB/100m	ELFEXT dB/100m	PSNEXT dB/100m	PSACR dB/100m	PSELFEXT dB/100m
1.0	80.0	2.0	20.0	78.0	80.0	77.0	75.0	77.0
4.0	80.0	3.6	23.0	76.4	80.0	77.0	73.4	77.0
10.0	80.0	5.7	25.0	74.3	74.0	77.0	71.3	71.0
16.0	80.0	7.2	25.0	72.8	69.9	77.0	69.8	66.9
20.0	80.0	8.1	25.0	71.9	68.0	77.0	68.9	65.0
31.3	80.0	10.1	23.6	69.9	64.1	77.0	66.9	61.1
62.5	75.5	14.5	21.5	61.0	58.1	72.5	58.0	55.1
100.0	72.4	18.5	20.1	53.9	54.0	69.4	50.9	51.0
200.0	67.9	26.8	18.0	41.1	78.0	64.9	38.1	45.0
250.0	66.5	30.2	17.3	36.3	46.0	63.5	33.3	43.0
300.0	65.3	33.3	17.3	32.0	44.5	63.3	29.0	41.5
600.0	60.8	48.9	17.3	11.9	38.4	57.8	8.9	35.4

Mechanical and Thermal Properties

Bending Radius: 8 × OD (during installation); 4 × OD (fixed installed)
Temperature Range: -40°C ~ +85°C

Dimensions and Weight

Part No.	Construction No. of elements×No. of cores in element×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
			Inner	Outer		
MLN-S/FTPCAT7M4P27S	4×2×0.27	0.47	0.75	1.0	10.1	112