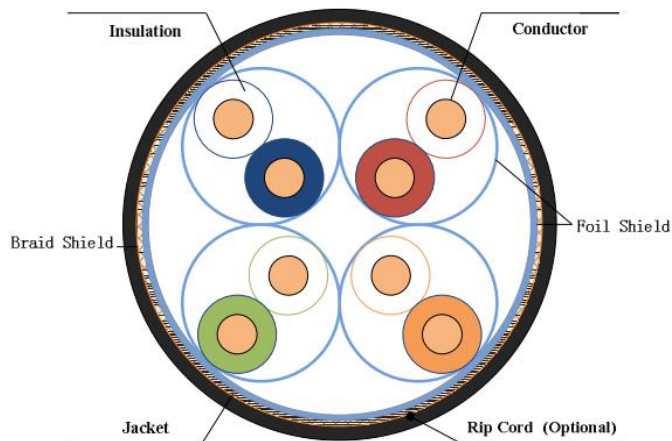


PRODUCT SPECIFICATION

LAN cable

CAT. 5e SFTP 4x2x24AWG

FIGURE



CONSTRUCTION

Inner conductor	Solid Bare Copper	$\Phi 0.50 \pm 0.01\text{mm}$
Insulation	Solid HDPE	$\Phi 1.10 \pm 0.05\text{mm}$
	Color	1 Blue & White/ Blue 2 Orange & White/ Orange 3 Green & White/ Green 4 Brown & White/ Brown
	Shield	Line to separate Total shield Foil Foil + Copper Braid Coverage $\geq 40\%$
Sheath	PVC, PE, FRPVC, LSZH Rip cord	$\Phi 6.30 \pm 0.30\text{mm}$ Nylon (Optional)

MECHANICAL PROPERTIES

Bending radius (single)	mm	$8 \times \text{cable OD}$
-------------------------	----	----------------------------

ELECTRICAL PROPERTIES

Impedance	Ω	$100 \pm 15 @ \leq 100\text{MHz}$
DC Resistance unbalance	For conductors, %	≤ 2
	For pairs, %	≤ 4
Conductor DC Resistance	$\Omega/100\text{m}$	$\leq 9.5 @ 20^\circ\text{C}$
Mutual Capacitance at 1MHz	nF/100m	≤ 5.6
Insulation Resistance	M Ω .km	≥ 5000
Delay Skew	ns/100	≤ 45

PRODUCT SPECIFICATION

LAN cable

CAT. 5e SFTP 4x2x24AWG

TRANSMISSION PROPERTIES

Frequency	Attenuation	Return loss	NEXT	PS NEXT	EL FEXT	PS EL FEXT	Delay
MHz	dB/100m	dB	dB	dB	dB	dB	ns/100m
4	4.1	23.0	56.3	53.3	52.0	49.0	552
8	5.8	24.5	51.8	48.8	45.9	42.9	547
10	6.5	25.0	50.3	47.3	44.0	41.0	545
16	8.2	25.0	47.2	44.2	39.9	36.9	543
20	9.3	25.0	45.8	42.8	38.0	35.0	542
25	10.4	24.3	44.3	41.3	36.0	33.0	541
31.25	11.7	23.6	42.9	39.9	34.1	31.1	540
62.5	17.0	21.5	38.4	35.4	28.1	25.1	539
100	22.0	20.1	35.3	32.3	24.0	21.0	538

STANDARDS

ANSI/TIA/EIA 568-B.2-1

Compliant