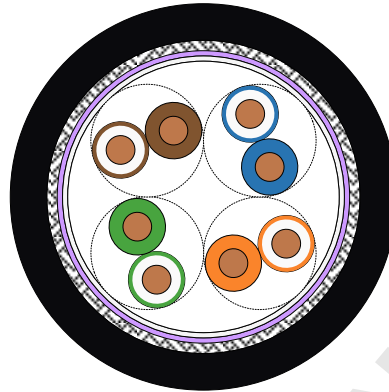


Halogen free, Flame retardant, CAT5e Cable (Indoor/Outdoor)



Design

Wire

Bare copper wire
Insulation of foamed Polyethylene (PE) with skin

ø 0.5 mm (0.020 in dia)
ø 1.0 mm (0.039 in dia)

Pair

2 wires twisted to a pair

Core:

4 pairs twisted
Sequence of colors: WHBU/BU-WHOG/OG-WHGN/GN-WHBN/BN
Plastic tape, overlapped
Alulaminat foil overlapped, applied longitudinally
Shield braiding of tinned copper wires 0.1 mm dia (38 AWG)
Coverage ≥ 80%

ø 4.9 mm (0.193 in dia)

Jacket:

Thermoplastic copolymer (FRNC) BK

ø (6.5 ± 0.3) mm (0.255 ± 0.012 in dia)

Printing: "sequential length in metres" LEONI L * 02YS(ST)CH 4X2X0.5/1.0-100 "internal lot number"

Electrical data at 20°C

Loop resistance	≤	187	Ohm/km
Insulation resistance	≥	500	MOhm*km
Capacitance (1 kHz)	≈	46	nF/km
Time delay	≤	4.8	ns/m
Characteristic impedance 100 MHz	(100 ± 5)		Ohm
Surface transfer impedance 10 MHz	≤	100	mOhm/m
Coupling attenuation 30 - 100 MHz		55	dB
Test voltage (wire/wire/screen rms 50Hz 1min)		700	V

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100
Next (dB)	65.3	56.3	50.3	47.2	45.8	42.9	38.4	35.3
PSNext (dB)	62.3	53.3	47.3	44.2	42.8	39.9	35.4	32.3
ELFext (dB)	63.8	51.8	43.8	39.7	37.8	33.9	27.9	23.8
PSELFext (dB)	60.8	48.8	40.8	36.7	34.8	30.9	24.9	20.8
Attenuation typ. (dB/100m)	2.1	4.0	6.3	8.0	9.0	11.4	16.5	21.3
Frequency	4	8	10	16	20	31.25	62.5	100
Return loss (dB)	23.0	24.5	25	25	25	23.6	21.5	20.1

Electrical requirements acc. to EN 50288-2-1 Cat.5e

Mechanical and thermal characteristics

Conductor material acc. to DIN EN 13602 Cu-ETP-A...

Screen material acc. to DIN EN 13602 Cu-ETP-A...-B

Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table 2/A (HD 624.3) (02Y)

Jacket material acc. to DIN EN 50290-2-27 (HD 624.7)

UL-Style 21283 (80°C/30V)

Other characteristics:

RoHS compliant (EU Directive 2015/836)

Sunlight resistant acc. to UL 444 Sec. 7.12

Halogen-free acc. to IEC 60754-2

Flame retardant acc. to IEC 60332-1-2

Smoke-density acc. to IEC 61034-1/2

For outdoor use

Max. pulling force : 250 N

Permissible temperature range : -40 °C (-40 °F) up to 80 °C (176 °F)

Min. bending radius allowed : repeated 8X \emptyset , single 4X \emptyset

Weight about : 48 kg/km (32,2 lb/1000ft)

Designation of order:

L45467-J415-C76 500 m (1640 ft) on non-returnable reel

L45467-J415-C76-L4 100 m (328 ft) on non-returnable reel

L45467-J415-C76-N4 305 m (1001 ft) on non-returnable reel

L45467-J415-C76-M1 3000 m (9843 ft) on non-returnable reel

02YS(ST)CH 4X2X0.5/1.0-100 SW