

STP patch cables, Category 6_A, LSOH

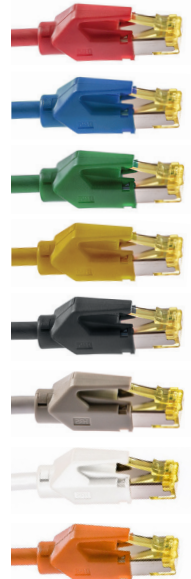
P/N: KEL-C6A-P-xxx

10
Gigabit

Cat. 6_A
interoperable

500
MHz

LSOH



Features

- individually shielded pairs with stranded wires, halogen-free sheath
- connector RJ45 with patented multi-layered arrangement of contacts
- connector RJ45 complies with IEC 60603-7 standard by its dimensions and transmission features
- enables transmission of all high-speed protocols including 10GBASE-T
- guarantees a bandwidth of 500 MHz
- perfectly shielded against Alien Crosstalk and electromagnetic interference
- available in red, blue, green, yellow, black, gray, white and orange color

Application

- primary (Campus), secondary (Riser), tertiary (Horizontal)
- IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
- IEEE 802.5: 16 MB; ISDN; FDDI; ATM
- high bandwidth digital applications with low BER

Length variants

0,5 m	P/N: KEL-C6A-P-005
1 m	P/N: KEL-C6A-P-010
1,5 m	P/N: KEL-C6A-P-015
2 m	P/N: KEL-C6A-P-020
3 m	P/N: KEL-C6A-P-030
5 m	P/N: KEL-C6A-P-050
7 m	P/N: KEL-C6A-P-070
10 m	P/N: KEL-C6A-P-100
12 m	P/N: KEL-C6A-P-120
15 m	P/N: KEL-C6A-P-150
20 m	P/N: KEL-C6A-P-200

Construction

Conductor	stranded bare copper wire, AWG 27/7	
Sheath	low smoke, halogen-free (LSOH)	
Contact pin material	phosphor-bronze alloy coated with 50 µ of gold	
Boots material	polycarbonate	
Outer cable diameter	5,8 mm	
Colour (standard)	cable	gray RAL7035
	boots	gray RAL7035

Mechanical properties

Insertion / extraction cycles	min. 750
Temperature range	-25 °C to +60 °C
Min. bending radius	25 mm

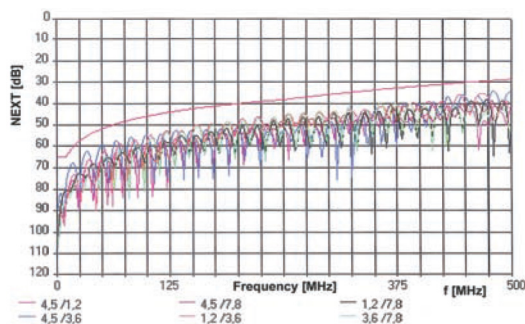
Electrical properties (connector)

Voltage rating	—	125 V AC
Current rating	—	1 A
Contact resistance	100 mA (DC or 1 000 MHz)	50 mΩ max.
Insulation resistance	100 V DC	100 MΩ min.

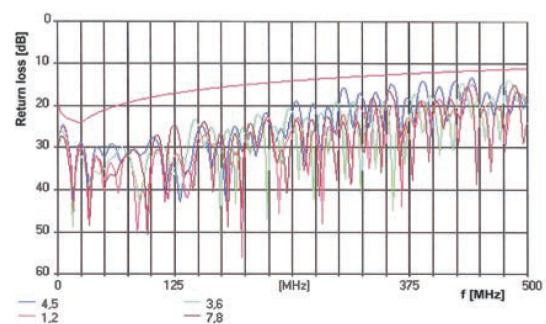
Electrical properties (cable)

Loop resistance	—	≤ 340 Ω/km
Resistance unbalance	—	≤ 3 %
Insulation unbalance	(500V)	≥ 2 000 MΩ x km
Capacity	at 800 Hz	nom. 43 nF/km
Capacity unbalance	(pár proti zemi)	≤ 1500 pF/km
Charasteristic impedance	pri 100 MHz	(100 ± 5) Ω
Nominal velocity of prapagation (NVP)	—	cca 79 %
Propagation delay	nominal	≤ 427 ns/100 m
Delay skew	nominal	≤ 12 ns/100 m
Test voltage	(DC, 1 min) core/core; core/screen	1 000 V
Transfer impedance	at 1 MHz	≤ 50 mΩ/ m
	at 10 MHz	≤ 100 mΩ/ m
	at 30 MHz	≤ 200 mΩ/ m

Typical NEXT



Typical return loss



This product is certified on a component level by FORCE Technology international independent laboratories according to ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0), EN 50173-1:2018 / EN 50173-2:2018, TIA-568.2-D:2018, IEC 61935-2:2010 (Ed. 3.0).

Mass production of this product is carried out under the supervision of FORCE Technology laboratories.