STP patch cable, Category 6_A , LSOH

P/N: **KEL-C6A-P-005**	length 0.5 m	P/N: **KEL-C6A-P-050**	length 5 m
P/N: **KEL-C6A-P-010**	length 1 m	P/N: **KEL-C6A-P-070**	length 7 m
P/N: **KEL-C6A-P-015**	length 1.5 m	P/N: **KEL-C6A-P-100**	length 10 m
P/N: **KEL-C6A-P-020**	length 2 m	P/N: **KEL-C6A-P-150**	length 15 m
P/N: **KEL-C6A-P-030**	length 3 m	P/N: **KEL-C6A-P-200**	length 20 m

10 Gigabit | Cat.6_A interoperable | 500 MHz | LS0H

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
- complies with the requirements for fire prevention arrangements in buildings with higher concentration of people
- available in red, blue, green, yellow, black and gray 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

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	
Color (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

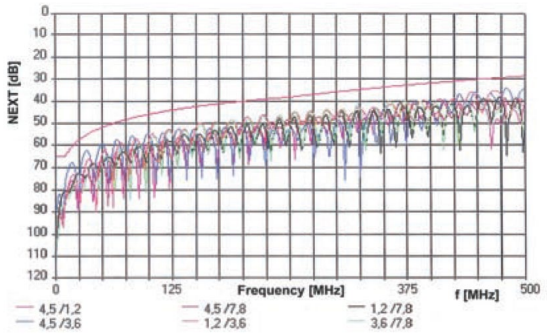
electrical properties (connector)

Voltage rating	-	125 V AC
Current rating	-	1 A
Contact resistance	100 mA (DC or 1000Hz)	50 mΩ max.
Insulation resistance	100 V DC	100 MΩ min.

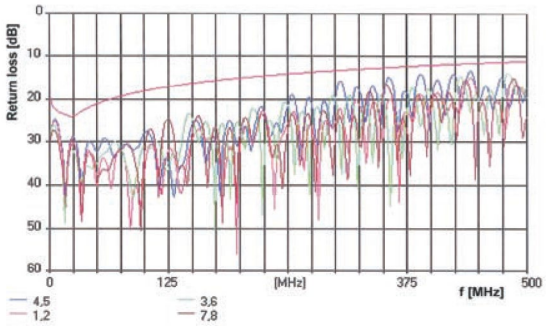
electrical properties (cable)

Loop resistance	-	≤ 340 Ω/ km
resistance unbalance	-	≤ 3%
insulation resistance	(500V)	≥ 2000 MΩ x km
Capacity	at 800 Hz	nom. 43 nF/ km
Capacity unbalance	(pair/ground)	≤ 1500 pF/ km
Charasteristic impedance	at 100 MHz	(100 ± 5) Ω
Coupling attenuation	Typ II (≥ 55dB@100MHz)	Alien crosstalk (ANEXT, AFEXT) is proven by design
Nominal velocity of propagation (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	1000 V
Transfer impedance	at 1 MHz	≤ 50mΩ/ 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 DELTA international independent laboratories according to ISO/IEC 11801:2011 (Ed. 2.2), EN 50173-1:2011 EN 50173-2:2007 amendment A1:2010, ANSI/TIA-568-C.2:2009, IEC 61935-2:2010 (Ed. 3.0).
The original certificate is available and can be downloaded directly from DELTA website by scanning a QR code (on the left).

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