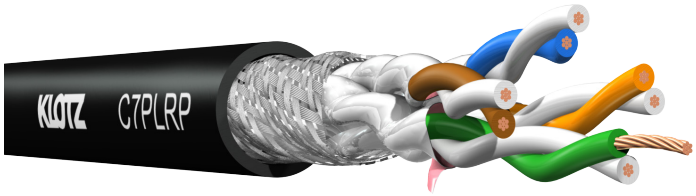
bulk cables	CAT network	patch 100 Ω	C7PLRP



CAT 7 PUR

CAT7 LONG RUN patch cable
AWG 23/7 - S/FTP - 600 MHz - PUR

- 4x 2x AWG 23/7 - 600 MHz
- LONG RUN for mobile use up to 100 m
- S/FTP (overall braid shield + foil shielded twisted pairs)
- category 7 acc. to IEC 61156-6
- version in PUR, black
- Ø 8.5 mm
- analog and digital audio signals
- digital media over IP
- suitable for CAT6a cable connectors: Neutrik etherCON (NE8MX6B) and Telegärtner RJ45 metal (RJ45SAT-FS)

Flexible CAT7 LONG RUN 10Gbit network cable and data cable for transmission lengths of up to 100m. For analog and digital signals in the frequency range up to 600 MHz.For use in class D, E, EA and F applications such as 10Base-T, 100Base-T, 1000Base-T, 10GBase-T, audio networks such as Ethersound™; AES67, Dante, Ravenna and many others, video networks such as AVB, SMPTE ST2110 and DMX lighting control systems. The cable meets the requirements for category 7 patch cables according to ISO/IEC 11801, EN 50173-1, IEC 61156-6 and EN 50288-4-2. The small diameter and flexibility make the cable easy to handle, it is ideally suited for mobile applications with RJ45 or etherCON connectors indoors and outdoors and enables problem-free use on cable drums.The PUR outer jacket is extremely abrasion-resistant, flexible at low temperatures down to -40°C, flame-retardant, halogen-free and resistant to oil, microbes and chemicals.

design

conductor	stranded bare copper, Ø 0.26 mm² (23/7 AWG)
core insulation	polyolefin, nom. Ø 1.53 mm
core stranding	2 cores twisted to a pair
twisting	4 shielded pairs stranded
pair shielding	AL/PET foil
overall shield	tinned copper braid, >65% coverage
outer jacket	PUR, black
overall diameter	8.5 mm

mechanics

min. bending radius	
installation	8x overall diameter
operation	4x overall diametre
flame retardancy	acc. to IEC 60332-1-2
halogen-free	acc. to IEC 60754-1

electric

conductor resistance	< 72.5 Ω/km
mutual capacitance	44 pF/m
characteristic impedance	100 Ω ± 15%
signal speed	0.75 c
propagation delay	< 536 ns/100m
delay skew	25 ns/100m

frequency [MHz]	attenuation [dB/100m]		PS NEXT [dB]		PS ACR-N [dB] @ 100 m		PS ACR-F [dB] @ 100m		RL [dB]	
	typical		typical		typical		typical		typical	
1	1.9	3	>95	75	95	72	>90	75	30	-
10	5.8	8.8	>95	75	94.1	66.2	>90	71	33	25
100	18.5	28.5	85	69.4	83.3	40.9	74	51	28	19
250	30.1	46.5	80	63.4	80.2	17	60	43	25	15.6
500	43.3	67.9	76	58.9	72.3	-	51	37	23	15.6
600	48.1	75.1	74	57.7	68.3	-	45	35.4	22	15.6

order code	type	outer jacket	operating temperature	cable color	weight kg/m	standard lengths m
C7PLRP	S/FTP	PUR	-40°C / +80°C	black	0,08	100 / 200 / 300 / 500

technical specifications are subject to change

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KLOTZ interfaces