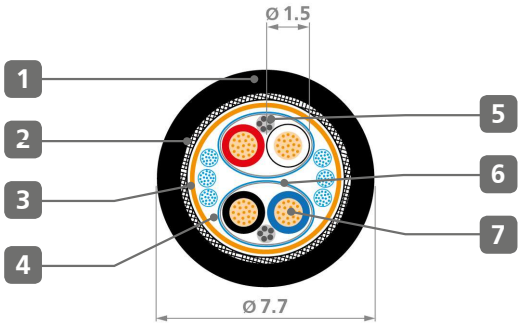
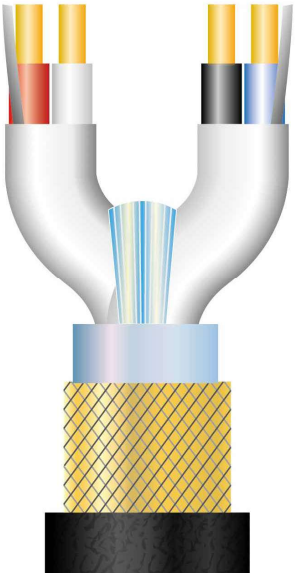
DMX Data Cable

FLN85 series

Twin pair / two channel Data Cable according DMX512 / AES/EBU standard, O.D. 7.7 mm, 0.15 mm² / AWG 24



1 Jacket	4 AL / PT Foil	7 Conductor
2 Braided Shield	5 Drain wire of pair shield	
3 Paper tissue	6 Conductor Insulation	



MECHANICAL SPECIFICATION

Conductor area	0.15 mm² / AWG 26
Composition of conductor	19 x 0.10 mm / 19 x AWG 38 Annealed copper, OFC standard
Conductor insulation	LD - PE, Type: DOW6005, Ø 1.5 mm
Conductor color	Pair 1: Red & White Pair 2: Black & Blue
Drain wire	5 x 0.20 / 5 x AWG 32 Tinned annealed copper, OFC standard
Composition of core	2 twisted conductors 40 mm one, turn +/- 5 mm; left hand
Foil shield	AL - PT Foil, Coverage 100% Conductive side (AL coated) towards conductor core, spiral wound
Lay Length of core	120 mm one, turn +/- 10 mm, left hand
Paper tissue (Separator)	Paper tape
Braided shield	16 x 4 Ø 0.10 mm annealed copper, OFC standard, Coverage ≥ 60 %
Overall jacket material	PVC with restricted Substance: Cadmium: < 5 PPM ("Cadmium free") Lead: < 50 PPM Mercury: < 2 PPM Chromium: Not contained
Jacket colour	Black (other colours on request)
Overall diameter	Ø 7.7 mm tolerance: +/- 0.15 mm
Working temperature - Mobile - Fixed	-10 °C to +70 °C -20 °C to +70 °C
Cable Printing	- Standard cable print - Customer cable print on request

ELECTRICAL SPECIFICATION

Nominal Characteristic Impedance	120 Ω – 1 MHz
Nominal Attenuation	2.0 dB / 100 m – 1 MHz
Capacitance 1 Conductor to Conductor	≤ 50 pF / m – 1 KHz
Capacitance 2 Conductor to Shield	≤ 85 pF / m – 1 KHz
Nominal DC Conductor Resistance	≤ 130 mΩ / m – 20 °C
Insulation resistance	> 1 GΩ / m – 20 °C, 500 V_{DC}
Test voltage: Conductor / Screen	1.000 VAC – 50 Hz, 1 Minute