

QUADS TRACKSIDE COMMUNICATION CABLES FOR TUNNEL OR UNDERGROUND LOCATIONS – LUL STANDARD



Telecommunications cable



Flame retardant



Low smoke emission



Zero halogen



UV resistant



ROHS compliant

STANDARDS

Construction: LUL G-7622 A2 TYPE 2

DESCRIPTION AND APPLICATION

Telecommunications cables from 8 to 160 quads, conductor diameters of 0.63 and 0.9 mm, insulated with cellular polyethylene. Quads in layers with a aluminium-polyethylene tape for a "moisture barrier" and protected with a LSZH violet material sheath, UV resistant, for tunnels or underground locations. The cables are telecommunications type 2, to be installed in trackside in tunnels or underground.

CONSTRUCTION

- **Conductors:** Annealed copper, diameter 0.63 and 0.9 mm.
- **Insulation:** Cellular polyethylene.
- **Lay-up:** Star-Quads.
- **Core wrapping:** Longitudinal dielectric tape applied with overlap.
- **Screen:** Aluminium-copolymer longitudinal tape applied with overlap.
- **Sheath:** LSZH violet material.
- **Sheath marking:** The outer sheath shall be marked at regular intervals with the following information:
 - Name of Manufacturer / year / Length markings
 - Other type of markings is also possible according to the customer.



ELECTRICAL CHARACTERISTICS (20°C)	0,63	0,90
Maximum conductor Resistance (Ω/km)		
• Average value	57,5	28
• Maximum value	59	29
Resistance Unbalance	Maximum 2%	
Minimum insulation resistance ($M\Omega \times km$, 20°C, 500 V)	1500	
Maximum mutual capacitance (nF/km , 1000 Hz)	59	
Capacitance unbalance ($pF/460m$, 800 Hz)	Average	Maximum
Pairs in the same quad	50	300
Side quads	30	200
Other quads pairs	-	100
Ghost Pair – Same Quad Pair	300	2400
Pair - Earth	200	1200

All drawings, designs, specifications and particulars of weights, dimensions, etc. in this documentation are only indicative and must not be considered contractual.

EA5L04S-Ed1

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OTHER CHARACTERISTICS

Flame propagation, low smoke emission and zero halogen (E4156 part 2)

Temperature range: from -25° C to +75° C

Minimum bending radius: 12 x R_{cable}

DIMENSIONS AND WEIGHTS

Diameter : 0.63 mm					
Code	Nº Quads	cable (mm)	Approx. Weigth (kg/km)	Length (m)	Drum

EA5L04S63000802N	4	13.3	212	1000	A0
EA5L04S63001402N	7	13.8	257	1000	A0
EA5L04S63002002N	10	14.9	312	1000	A0
EA5L04S63002802N	14	16.2	383	1000	A0
EA5L04S63003802N	19	17.6	467	1000	A2
EA5L04S63005402N	27	19.6	599	1000	A2
EA5L04S63007402N	37	21.6	755	1000	A4
EA5L04S63010402N	52	24.2	984	1000	A4
EA5L04S63016002N	80	28.4	1403	1000	A6
EA5L04S63022802N	114	32.2	1893	1000	A6
EA5L04S63030802N	154	36.2	2457	1000	A8

Diameter : 0.90 mm					
Code	Nº Quads	cable (mm)	Approx. Weigth (kg/km)	Length (m)	Drum

EA5L04S90000802N	4	15.8	305	1000	A0
EA5L04S90001402N	7	16.8	397	1000	A2
EA5L04S90002002N	10	18.6	503	1000	A2
EA5L04S90002802N	14	20.6	638	1000	A4
EA5L04S90003802N	19	22.7	800	1000	A4
EA5L04S90005402N	27	25.8	1058	1000	A4
EA5L04S90007402N	37	28.9	1364	1000	A6
EA5L04S90010802N	52	32.7	1816	1000	A6

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