

UL - paired
Li9YC11Y

Data/control signal cables with small outer diameters,
halogen-free, fire-retardant

Technical data

Highly flexible core structure, tightly twisted pairs. The cables have a shield under the outer jacket.
Preferred application
Transfer of data and currents; pulse connection cables in electronic systems and control and regulation systems.

Special features
Cores with UL certification, Style 10954 AWM-UL Standard 758
Jackets with UL certification, Style 21318 AWM-UL Standard 758 Cable flame

Construction data
Conductors of plain, fine-wire copper strands:
AWG 22/19: 19 x 0.15 mm (0.34 mm²)
AWG 24/19: 19 x 0.127 mm (0.24 mm²)
Ø of the insulated core:
1.05 mm ± 0.05 mm
0.92 mm ± 0.05 mm
Core insulation:
PP (Polypropylen) halogen-free and flame-retardant, colours as per IEC

Twisted structure:
Each of 2 cores twisted to a pair

Pair labelling:
Via colour combinations of the cores

Twisting and wrapping of all pairs:
To ensure a round cable structure, the pairs are twisted with cotton filler and the resulting cable bundle is then wrapped with transparent polyester foil.

Braided full shielding:
of tinned copper wires; visual coverage > 85%.

Wrapping:
a separating layer of overlapping fleece.

Outer jacket:
Thermoplastic Polyether Polyurethane (TPE-U), black
Wall thickness of at least 0.6 - 0.8 mm;
increasing with the number of pairs

Electrical and thermal properties at 20 °C:
Conductor resistance
AWG 22/19: max. 55.4 Ω/km
AWG 24/19: max. 87.6 Ω/km
Core insulation resistance:
≥ 200 MΩ x km at 20 °C
Operating voltage:
max. 90 V / AC
Test voltage:
max. 1000 V / AC
Current rating (approximate values at an ambient temp. of 25 °C):
AWG 22/19: 5 to 8 A depending on the cable routing
AWG 24/19: 3 to 5 A depending on the cable routing
-30 °C to +80°C (installation and operation)
-40 °C to +80°C (transport and storage)
Temperature range:
flame-retardant according to UL 1581 VW-1 / UL 2556 FV-2.

Bending radius:
Static: 10 x outer diameter
Moving: 15 x outer diameter

Li9YC11Y (2 x 2 to 6 x 2) AWG 24 (= 0,24 mm²)

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Net prices including copper

Weight kg / 100 m	Total Ø ± 0,25 mm	Sample quantities under 100 metres	in EUR per 100 metres on collection from			Ordering information
		Price for 1 m	100 m	500 m	3000 m	
3.85	5.15	5.70	380.00	285.00	190.00	Li9YC11Y 2P 24 C UL black
4.41	5.40	6.70	446.00	335.00	223.00	Li9YC11Y 3P 24 C UL black
5.10	5.80	8.20	547.00	411.00	274.00	Li9YC11Y 4P 24 C UL black
6.82	6.70	11.00	734.00	550.00	367.00	Li9YC11Y 6P 24 C UL black

Li9YC11Y (2 x 2 to 6 x 2) AWG 22 (= 0,34 mm²)

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Net prices including copper

Weight kg / 100 m	Total Ø ± 0,25 mm	Sample quantities under 100 metres	in EUR per 100 metres on collection from			Ordering information
		Price for 1 m	100 m	500 m	3000 m	
4.56	5.60	6.40	422.00	317.00	211.00	Li9YC11Y 2P 22 C UL black
5.28	5.90	7.80	518.00	389.00	259.00	Li9YC11Y 3P 22 C UL black
6.17	6.30	9.80	652.00	489.00	326.00	Li9YC11Y 4P 22 C UL black
8.43	7.25	12.30	820.00	615.00	410.00	Li9YC11Y 6P 22 C UL black

Normal stock unit: 100-m ring. Short sample (20 cm) free of charge. No copper surcharges

pünktlich • schnell • zuverlässig

Metrofunk Kabel Union