

RLA75E cable series

- **Cost effective copper clad steel range**
- **Quad shielded Class A fly lead**
- **F-male, IEC-male and IEC-female straight connectors**
- **Frequency range 5-1000 MHz**
- **Moulded connectors**
- **High return loss**
- **Connectors have soldered inner pin connections**



Overview

The quality of service a user experiences is only as strong as the weakest link, so the quality and reliability of fly leads is as important as the other components of a cable system.

The Technetix specification for fly leads includes the detailing of materials, construction and performance characteristics to ensure customers experience optimised service quality from installation and throughout a long service life. Precise dimensioning and outstanding resilience of the connectors and inner pins delivers a very reliable connection. The connectors are tightly secured and moulded to the cables to ensure good pull and strain relief.

The cable's inner conductors are soldered to their inner pins to maintain excellent electrical and mechanical performance. External sources of electromagnetic radiation include short wave radio, telephones, DVB-T, and others.

The screening effectiveness of a fly lead therefore needs to mitigate the effects of both the e-gress and ingress of unwanted signals. To meet these requirements the RF-specifications of Technetix fly leads exhibit low insertion loss, high return loss and exceed Class A screening effectiveness over their whole frequency range, using quadruple braiding shielding and special foils.

Electrical specifications

	MHz	Min	Typ	Max
Frequency	5-1000			
Insertion loss	5-470		0.6	0.8
	470-1000		1.0	1.2
Return loss - In->Out	5-1000	18.0		
Screening efficiency	5-300	85.0	95.0	
	300-470	80.0	90.0	
	470-1000	75.0	85.0	

Ordering information

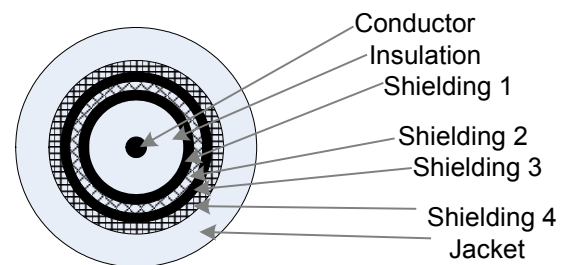
Item Name	Article number
RLA75E-10-1.5	10470238
RLA75E-11-1.5	19002509
RLA75E-21-1.5	10470320
RLA75E-30-1.5	10470239
RLA75E-33-1.5	19002829
RLA75E-40-1.5	19003594
RLA75E-45-1.5	19004380

Mechanical specifications

Colour	White
Impedance (Ohm)	75
Outer diameter (mm)	5.1
Assembly Length (m)	1.5
Equipment Approval	CE
Bulk Cable Weight W/O connector	22.6 lbs/1000ft
Capacitance	22.7µF/ft
Insertion Force	5.1 Kgf
Pull Force (IEC)	4.4 Kgf
Torsional Force (F-type)	≥8 Nm

Cable specifications

Material		Specification	Remarks
Conductor	CCS	1/0.50±0.005	
Insulation	PE	∅ 3.0±0.10	
Shield 1	Al-Mylar	0.068*13	
Shield 2	CCS	16/5/0.12	Braiding 10 picks/inch
Shield 3	Al-Mylar	0.05*15	
Shield 4	CCS	16/2/0.12	Braiding 7 picks/inch
Jacket	PVC A80 +/- 2	∅ 5.1±0.15	White



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Connector 1	IEC-Male	IEC-Male	IEC-Male R/angled	F-Male	IEC-Female	IEC-Male	F-male
Connector 2	IEC-Female	IEC-Female R/angled	IEC-Female R/angled	F-Male	F-Male	F-Male	F-male

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