

RLA++ cable series

- **Quad shielded Class A++ fly lead**
- **105dB to 1GHz**
- **Incorporating Technetix F-Safe™ and IEC-Safe™ Class A++ Connectors**
- **Frequency range 5-2400 MHz**
- **Moulded strain relief**
- **IEC connectors feature superior impedance characteristics**



Overview

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

Attention to detail in the specification of the materials, construction and performance characteristics ensures that the customer experience is optimised from installation and throughout a long service life. Precise dimensioning and the 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 cables' inner conductors are soldered to their inner pins to maintain excellent electrical and mechanical performance.

There are many external sources of electromagnetic radiation present in the in home environment, including short wave radio, mobile phones, DVB-T and others.

The screening effectiveness of a fly lead therefore needs to mitigate the effects of both the egress and ingress of unwanted signals. To meet these requirements, the RF specification of the Technetix fly leads exhibits low insertion loss, high return loss and exceeds Class A++ screening effectiveness over the whole frequency range, using quadruple shielding with a mix of braids and foils.

Cable specifications

	MHz	IEC-male to IEC-female	IEC-female to F-male	IEC-male to F-male	F-male to F-male
Frequency	5 - 2400				
Insertion loss (dB, max)					
length 1.5m	5 - 1006 MHz	0.8	0.7	0.6	0.9
	1006 - 2400 MHz	2.6	2.1	1.8	1.3
length 3.0m	5 - 1006 MHz	1.7	01.6	1.5	1.8
	1006 - 2400 MHz	3.8	3.5	3.1	2.7
length 5.0m	5 - 1006 MHz	2.9	2.8	2.9	3.0
	1006 - 2400 MHz	5.9	5.1	4.7	4.5
Return loss (dB, min)					
	5 - 12 MHz	25.0	25.0	25.0	25.0
	12 - 30 MHz	25.0	25.0	25.0	25.0
	30 - 300 MHz	25.0	25.0	25.0	25.0
	300 - 470 MHz	22.0	25.0	23.0	25.0
	470 - 1006 MHz	17.0	22.0	20.0	23.0
	1006 - 1700 MHz	12.0	18.0	15.0	20.0
	1700 - 2400 MHz	9.0	16.0	12.0	18.0
Screening Class A++ (except 5 to 12 MHz)					
	5 - 12 MHz	≤ 2.5 mΩ/m	≤ 2.5 mΩ/m	≤ 2.5 mΩ/m	≤ 2.5 mΩ/m
	12 - 30 MHz	≤ 0.9 mΩ/m	≤ 0.9 mΩ/m	≤ 0.9 mΩ/m	≤ 0.9 mΩ/m
	30 - 300 MHz	> 105.0 dB	> 105.0 dB	> 105.0 dB	> 105.0 dB
	300 - 470 MHz	> 105.0 dB	> 105.0 dB	> 105.0 dB	> 105.0 dB
	470 - 1006 MHz	> 105.0 dB	> 105.0 dB	> 105.0 dB	> 105.0 dB
	1006 - 2000 MHz	> 95.0 dB	> 95.0 dB	> 95.0 dB	> 95.0 dB
	2000 - 2400 MHz	> 85.0 dB	> 85.0 dB	> 85.0 dB	> 85.0 dB
Impedance (Ohm)	75				

Connector colour code

F-male	red
IEC-male	blue
IEC-female	green

Ordering information

RLA+++10-1.5B	RLA++ FLYLEAD IEC-M - IEC-F 1.5M BLACK	19005202
RLA+++10-3B	RLA++ FLYLEAD IEC-M - IEC-F 3M BLACK	19005203
RLA+++10-5B	RLA++ FLYLEAD IEC-M - IEC-F 5M BLACK	19005204
RLA+++12-1.5B	RLA++ FLYLEAD IEC-M - F-M 1.5M BLACK	19005205
RLA+++12-3B	RLA++ FLYLEAD IEC-M - F-M 3M BLACK	19005206
RLA+++12-5B	RLA++ FLYLEAD IEC-M - F-M 5M BLACK	19005207
RLA+++30-1.5B	RLA++ FLYLEAD F-M - F-M 1.5M BLACK	19005208
RLA+++30-3B	RLA++ FLYLEAD F-M - F-M 3M BLACK	19005209
RLA+++30-5B	RLA++ FLYLEAD F-M - F-M 5M BLACK	19005210
RLA+++40-1.5B	RLA++ FLYLEAD IEC-F - F-M 1.5M BLACK	19005211
RLA+++40-3B	RLA++ FLYLEAD IEC-F - F-M 3M BLACK	19005212
RLA+++40-5B	RLA++ FLYLEAD IEC-F - F-M 5M BLACK	19005213

Also available in other colours and lengths

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