# 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 enviroment, 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.



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technetix

## 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++** | 5 - 12 MHz | ≤ 2.5 mΩ/m | ≤ 2.5 mΩ/m | ≤ 2.5 mΩ/m | ≤ 2.5 mΩ/m |
| (except 5 to 12 MHz) | 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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