Benefits

- Interference and radiation free fly leads
- Right-angled versions provide easy access in tight spaces
- Easy to install by end users
- Connectors that maintain performance over time, reducing the number of service call outs
- Push-on connectors eliminate ingress from loose screw on connectors

Key features

- Low risk of deformation or destruction of the cable
- Right-angled variations
- Excellent electrical performance
- Class A++ screening effectiveness on both cable and connectors
- Quad shielded coax
- F-Safe (male) and IEC-Safe (female) Class A++ connectors
- Moulded strain relief

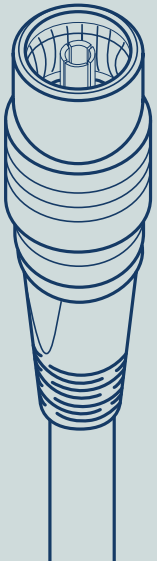
Class A++

Outstanding broadband service is achievable, but only when all the network components are manufactured and specified to the same high quality. A reliable assembly should be provided by using precise dimensions for resilient connectors and inner pins. Connectors must also be tightly secured and moulded to the cables to ensure good pull and strain relief. The cables inner conductors are soldered to the inner pins to maintain outstanding electrical and mechanical performance. Push-on connectors eliminate and design out the major cause of interference ingress on home installs - loose connectors.

There are many external sources of electromagnetic radiation present in the in home environment, including short wave radio, mobile phones and DVB-T. It is crucial that the screening effectiveness of a fly lead mitigates the effects of egress and ingress of unwanted signals.

The RF specification of Technetix fly leads meets all these requirements:

- Low insertion loss
- High return loss
- Exceeds Class A++ screening effectiveness over entire frequency range
- Quadruple shielding with a mix of braids and foils



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RLA++
Fly leads

technetix

Next level screening effectiveness for in home fly leads

RLA++ fly leads are easy to install and provide superior screening, ensuring high levels of signal integrity within the home.

Class A++ performance ensures your signal is protected from electromagnetic radiation from radio, cellular, Wi-Fi, DECT and other services operating on external frequencies. In home devices are also protected from radiation of the DOCSIS signal.

- Superior RF performance is maintained using a push on connector
- Easy to install by end user on customer premises. Maintains a secure fit and connection over time, potentially reducing the number of service visits.
- Class A++ screening effectiveness end to end.
- Cold flow prevention

How to address the interference problem

To counteract interference from LTE/4G and other services, Technetix has carried out a series of tests and calculations. The outcome of these tests determined the required level of screening effectiveness required on fly leads to provide protection within the home environment.

Level of screening effectiveness required:

Distance of cable equipment from LTE/4G device	Screening effectiveness for adequate protection	Minimum equivalent screening class
6 m	79 dB	> Class B
3 m	85 dB	> Class A
1 m	94 dB	> Class A+
0.5 m	100 dB	> Class A ++

According to EN 50117, the screening efficiency classes are defined as:

	Transfer impedance (mOhm/m) 5 - 30 MHz	Screening attenuation (dB) 30 - 1000 MHz	Screening attenuation (dB) 1000 - 2000 MHz	Screening attenuation (dB) 2000 - 3000 MHz
Class B	<15	>75	>65	>55
Class A	<5	>85	>75	>65
Class A+	<2.5	>95	>85	>75
Class A++	<0.9	>105	>95	>85

EMC measurement testing performed using a Coupling Measuring Tube (CoMeT).

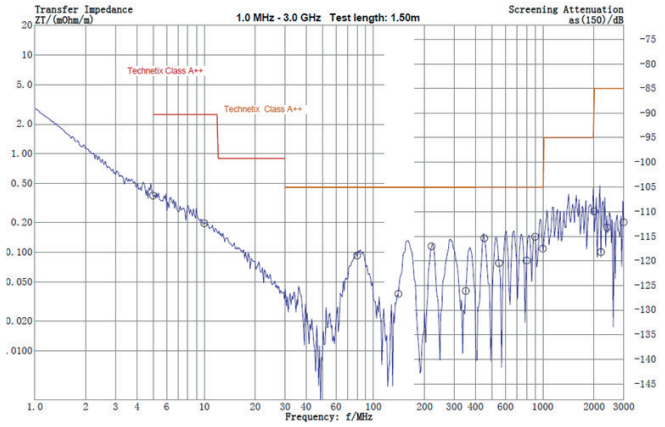

Figure 1: IEC Male - F Male push on fly lead screening performance

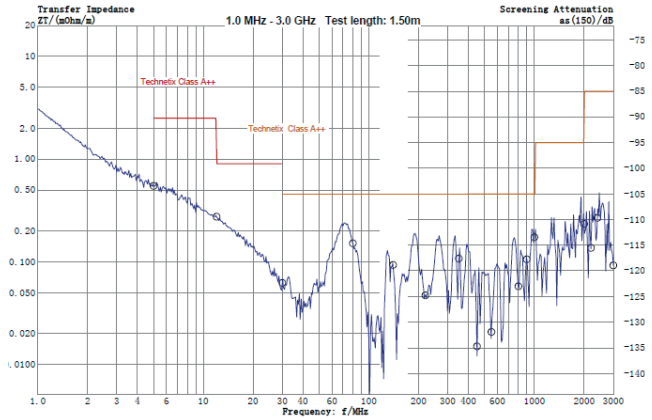

Figure 2: IEC Male to F Male right angled fly lead screening performance