

# 4. Prefabricated Leads

## Class A, type 1 and 2



EFLA manufactures a wide range of prefabricated leads and extension cords for your primary and secondary applications to ensure high performance circuit.

### Main benefits

- Easy and fast installation
- Wide range of product offer
- Compliance with international standards
- Customized Leads according to customer needs

## Prefabricated unscreened primary leads and extension cords

Our unscreened primary cables comprise a TPE insulated one-core cable with a bare copper conductor (19 strands/min 0.1 mm). These cables are manufactured in accordance with the specifications FAA L-824 (MIL-C-3432 or ICEA S-66-524) or MIL-C-4921, in general.

Nominal voltage is 5 000 V.

### Prefabricated, molded primary leads with the desired cable length

Molded on 6 mm<sup>2</sup>, 5 kV cable. Upon special request AWG 8 (8.3 mm<sup>2</sup>) is also available

- KDCP510.x.x: the plug connector is FAA L-823 style 2
- KDCR510.x.x: the receptacle is FAA L-823 style 9
- With KDCP510 and KDCR510, the other cable end is free

The cable length is given in centimeters as a suffix in the article number, KDC 510.8.xx. (for example, KDCP510.8.60 is a style 2 connector with a 60 cm lead)

### Prefabricated, unscreened primary leads

KDCP510



KDCR510



KDCE510.x.x: Extension cable with a plug and receptacle



### Prefabricated secondary leads and extension cords

The leads are available with two-core cables or with two single core wires. The latter is available even with higher temperature resistant wires.

KDC501-series  
Style 1



KDC502-series  
Style 7



KDC508-series  
Style 8



KDC507-series  
Style 7



## Secondary lead cable information

Secondary two-core cables are EPR-insulated and TPE-sheathed with stranded bare copper conductor. Cables are in accordance with the specifications FAA L-824 (MIL-C-3432 or ICEA S- 66-524) or MIL-C-4921 in general. Possible cross sections are 1.5 mm<sup>2</sup> (OD 8,5mm), 2.5 mm<sup>2</sup> (OD 10.0 mm) and 4 mm<sup>2</sup> (OD 12 mm). Nominal voltage is 600V. Bending radius is 5D.

### Extension cords:

The types above can be made to a specific length, with plug on one end and receptacle on the other. For example KDCE501.4.3000 (4 mm<sup>2</sup> and 30 m)

## KDCE501-series



## Secondary leads with two single core wires

### KDC503-series Style 1



### KDC503R-series Style 7



### KDC506-series Style 6



### KDC506S-series Style 6



**150 °C / 300 °F**

**200 °C / 390 °F**

Also available with ZYRAD wires: KDCZ506 and KDCZ506S  
or Teflon wires: KDCT506 and KDCT506S

## Cable and wire information

The secondary wire is bare copper, class 5 (IEC 60228). The core insulation is a special EPR compound. The outer sheath is a halogen free TPR compound (IEC60754-2/ EN 50267-2-3). The operating voltage is 0.6/1kV, with a temperature range of -40 up to +120 °C. The short-circuited short-term temperature resistance is 300 °C (570 °F) and the bending radius 5xD.

EFLA type	Diameter of insulation approx. (mm)	Outer diameter (mm)	Max. conductor resistance at 20 °C (ohm/km)
2 x 1.5mm <sup>2</sup>	0.8	8.5 ± 0.3	13.7
2 x 2.5mm <sup>2</sup>	3.7	9.7 ± 0.3	7.98
2 x 4mm <sup>2</sup>	4.6	11.7 ± 0.3	4.95
1 x 1.5mm <sup>2</sup>	1.0	3.2 ± 0.3	13.7
1 x 2.5mm <sup>2</sup>	1.2	4.6 ± 0.3	8.21
1 x 2.5mm <sup>2</sup> (T=Teflon)	0.6	2.9 ± 0.1	13.7
1 x 2.5mm <sup>2</sup> (Z=Zyrad)	0.8	3.7 ± 0.1	13.7