

Producer

- EFLA FINLADIA

Application

- for screened (shielded) cable (series KD 500)
- for unscreened (unshielded) cable (series KD 510)

Certificate basis

- FAA AC 150/5345-26C

Description/properties

Construction pins and socket

- the material of the contact parts is of tin-plated copper or brass
- the socket is supplied with copper beryllium sleeveytype spring assuring excellent contact pressure
- on request available also nickel plated contact parts

Housing

- the plug and receptacle insulation is made of TPE (thermoplastic elastomer) with excellent environmental resistance and good fluid resistance, capable to withstand attack from chemicals typically present on the airfield
- the insulation also withstands exposure to UV-radiation and ozone

Electrical parameters

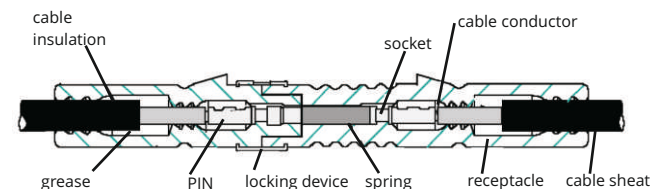
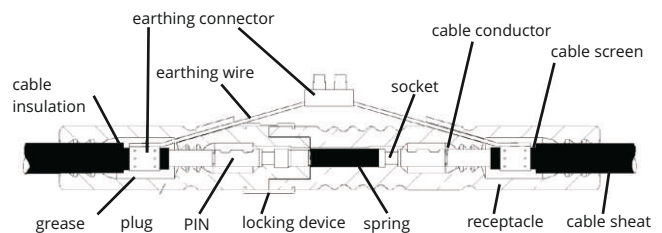
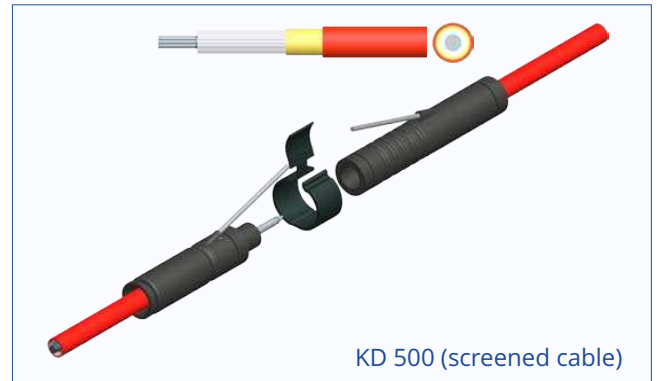
- current rating 25 A
- voltage rating 5000 V

Packing material

- the connectors are packed in recyclable cartons
- each connector kit is individually packed in low density polyethylene (LDPE) plastic bag and contains:
 - 1 pair of plug and receptacle housings
 - 1 pair of pin and socket connectors
 - 1 locking device (polypropylene)
 - silicone grease (inside the housing)
 - guiding pin for receptacle (PA or PP)
 - cleaning cloth., installation instructions

Technical parameters

| Screened cable | Unscreened cable | FAAL-823 | Conductor size | | Cable diameter [mm] | Diameter of cable insulation [mm] |
|----------------|------------------|-------------------|-----------------|-------------------------|---------------------|-----------------------------------|
| | | | mm ² | AWG | | |
| KD 500 | KD 510 | Style 3, Style 10 | 6 | AWG 8 (up to 19 stands) | 10,0–14,5 | 7,0–10,5 |
| KD 500.1 | KD 510.1 | Style 3, Style 10 | 6 | AWG 8 (up to 19 stands) | 14,0–18,5 | 10,0–13,5 |
| KD 500.2 | KD 510.2 | Style 3, Style 10 | 10 | AWG 6 | 14,0–18,5 | 10,0–13,5 |
| KD 500.3 | KD 510.3 | Style 3, Style 10 | 6 | AWG 8 (up to 19 stands) | 18,0–22,0 | 12,5–16,0 |
| KD 500.4 | KD 510.4 | Style 3, Style 10 | 10 | AWG 6 | 18,0–22,0 | 12,5–16,0 |
| KD 500.5 | KD 510.5 | Style 3, Style 10 | 10 | AWG 6 | 10,0–14,5 | 7,0–10,5 |
| KD 500.6 | KD 510.6 | Style 3, Style 10 | 6 | AWG 8 (up to 19 stands) | 8,5–11,5 | 5,0–7,5 |



- addition in series KD 500:
 - 2 earthing connectors (tin-plated brass) with 350 mm long 2,5 sqmm copper wires
 - 1 earthing connector with 2 screws (nickel-plated brass); connector housing of polyamide 6.6.

chapter:

7.3 KD (501, 502, 503, 503R)



Producer

- EFLA FINLANDIA

Application

- secondary connectors for airport cables

Certificate basis

- FAA AC 150/5345-26C

Description/properties

Construction pins and sockets

- the material of the contact parts is of tin-plated copper or brass
- on request available also nickel plated contact parts.

Housing

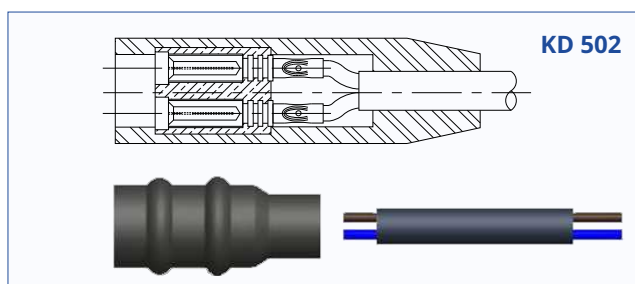
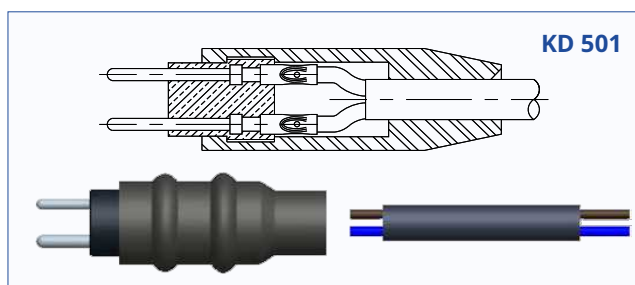
- the plug and receptacle insulation is made of TPE (thermoplastic elastomer) with excellent environmental resistance and good fluid resistance, capable to withstand attack from chemicals typically present on the airfield
- the insulation also withstands exposure to UV-radiation and ozone

Electrical parameters

- current rating 20 A
- voltage rating 600 V

Packing material

- the packing material is recyclable
- carton
- each connector kit is individually packed in low density polyethylene (LDPE) plastic bag, each kit contains:
 - 1 plug or receptacle housing
 - 1 body of metal connectors
 - 2 pin or socket connectors
 - silicone grease
 - detent part for locking the metal parts
 - cleaning cloth
 - installation instructions



Technical parameters

KD 501 and KD 502 - series for two-core cables

| Plug | FAA L-823 | Conductor size [mm ²] | Cable diameter [mm] |
|----------|-----------|-----------------------------------|---------------------|
| KD 501 | style 5 | 1,5–2,5 | 8,5–13,5 |
| KD 501.1 | style 5 | 4,0–6,0 | 11,5–18,0 |
| KD 501.2 | style 5 | 4,0–6,0 | 8,5–13,5 |

| Receptacle | FAA L-823 | Conductor size [mm ²] | Cable diameter [mm] |
|------------|-----------|-----------------------------------|---------------------|
| KD 502 | style 12 | 1,5–2,5 | 8,5–13,5 |
| KD 502.1 | style 12 | 4,0–6,0 | 11,5–18,0 |
| KD 502.2 | style 12 | 4,0–6,0 | 8,5–13,5 |

KD 503 and KD 503/R - series for two single wires

| Plug | FAA L-823 | Conductor size [mm ²] | Cable diameter [mm] |
|----------|-----------|-----------------------------------|---------------------|
| KD 503 | style 4 | 1,5–2,5 | 2,8–4,0 (×2) |
| KD 503.1 | style 4 | 4,0–6,0 | 3,8–5,5 (×2) |
| KD 503.2 | style 4 | 4,0–6,0 | 2,8–4,0 (×2) |
| KD 503.3 | style 4 | 4,0–6,0 | 5,0–8,0 (×2) |

| Receptacle | FAA L-823 | Conductor size [mm ²] | Cable diameter [mm] |
|------------|-----------|-----------------------------------|---------------------|
| KD 503/R | style 11 | 1,5–2,5 | 2,8–4,0 (×2) |
| KD 503.1/R | style 11 | 4,0–6,0 | 3,8–5,5 (×2) |
| KD 503.2/R | style 11 | 4,0–6,0 | 2,8–4,0 (×2) |
| KD 503.3/R | style 11 | 4,0–6,0 | 5,0–8,0 (×2) |

