

PRODUCT DATASHEET

Extension cords for frangible masts KDC7



ICAO Aerodrome Design Manual, Part 6, Frangibility
FAA AC 150/5220-23 Frangible connections



Frangible KDC7 connector is designed with break-away point and protected with a special sleeve. Upon an impact, connector breaks safely and does not cause additional hazard, like ignition of kerosin. KDC7 connectors are fully compliant with ICAO Aerodrome Design Manual Part 6, frangibility requirements.

- Superior insulation resistance by thermoplastic elastomer (TPE)
- Nominal rating: 20 A and 600 V
- Conductor size 1.5–4 mm² (16–10/8 AWG)
- ROHS compliance with EU directive NO2002/95/EC



Proven frangibility

- Full scale impact tested break-away mechanism according to the ADM Part 6 Chapter 5 and FAA AC 150/5345-45C, section 4
- Ensure proper frangibility behavior of mast structure
- Prevent any additional hazards in case of an impact, like fires or cable wrapping around the aircraft

Lowest cost of ownership

- Easy and fast plug and play installation on-site
- Maintenance-free solution for the whole frangible mast lifespan including cable assemblies and mount ties



Extension cord information

Type	Extension cord, plug & receptacle
Housing	TPE molded
Cross section	Two-core
Dual insulation	EPR-insulated & TPE-sheathed
Core insulation	Special EPR compound
Outer sheath	Halogen-free TPE compound (IEC 60752-2 / EN 50267-2-3)
Conductors	Copper, Class 5 (IEC 60228)
Nominal voltage	600 V
Temperature range	-40 °C to +120 °C (-40 °F to +248 °F)
Short term short circuit temperature resistance	300 °C (570 °F)
Bending radius	5D
Specifications	FAA L-824, MIL-C-3432, MIL-C-4921 & ICEA S-66-524 ICAO ADM6 FAA AC 150/5220-23

Ordering information

KDC X . X . X		
EFLA Type	Cable cross section	
KDC7P	1	1.5 mm ²
KDC7R	2	2.5 mm ²
KDCE7P-7R	4	4 mm ²
KDCE7P-502		
KDCE501-7R		
Cable length		
Standard lengths		Customized lengths, for example
30 (cm)		55 (cm)
60 (cm)		500 (cm)
100 (cm)		1000 (cm)
150 (cm)		

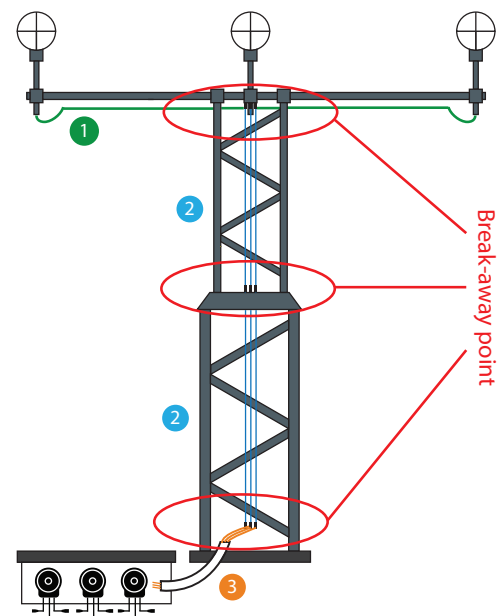


EFLA Type	Break-away plug	Break-away receptacle	Style 1 plug	Style 7 receptacle	Free end	
KDC7P	x				x	
KDC7R		x			x	
KDCE7P-7R	x	x				
KDCE7P-502	x			x		
KDCE501-7R		x	x			

For example, EFLA part number KDCE7P-7R.2.100 means 100 cm long prefabricated secondary two-core cable lead with 2.5 mm² cable cross section, with break-away plug & receptacle.

Break-away points are illustrated as below

Extension cord type	
1	Lighting fixture cabling
2	Mast cabling
3	Transformer pit cabling



Note:

Information given in this document provides general description. We reserve the rights to make technical changes or modify contents of this document without prior notification.

©EFLA Oy, 2023. All rights reserved.

