

EFLA EXTENSION CORDS FOR FRANGIBLE MASTS

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



KDCE6 extension cords for frangible masts

KDCE6 prefabricated extension cords meet the frangibility standards. They are equipped with a special break-away connector which is secured by an additional sleeve. If an airplane crashes with the approach light mast, connector opens safely from specific points, prevents cable rupture, and minimizes the risk of any additional hazards, like ignition of kerosin. Break-away extension cords are fully compliant with ICAO Aerodrome Design Manual Part 6, Frangibility requirements.

Proven frangibility

- Full scale impact test tested break-away mechanism with Exel masts according to the ADM Part 6 Chapter 5 and FAA AC 150/5345-45g, section 4
- Guarantee proper frangibility behavior of mast structure
- Prevents any additional hazardous conditions in case of a impact, like fires or cable wrapping around the aircraft

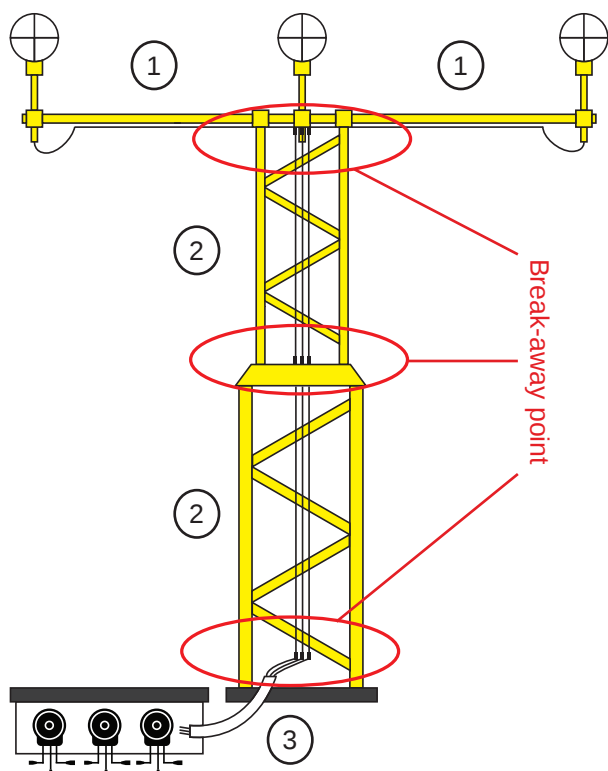
Lowest cost of ownership

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



Extension cord information

Type	Extension cord, plug & receptacle
Housing	TPE molded
Cross section	Two-core, 2 x 2.5 mm ²
Length*	According to customer specs
Diameter of insulation (approx.)	3.7 mm
Outer diameter	9.7 ± 0.3 mm
Max. conductor resistance at 20 °C	7.98 ohm/km
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	-60 °C to +120 °C (-76 °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



Extension cord options

- 1 KDCE502-6.2.*
- 2 KDCE6.2.*
- 3 KDCE6-501.2.*

*length in cm

Related products

Break-away connector kits	KD6 & KD6R
Mount ties for mast assembly	DTRH-LR0 DT-HQ0 DT-EFLA
Secondary connector to transformer	KD501

EFLA is the world's leading supplier of seamless power and communication products for airfield ground lighting circuits. With more than 30 years experience in the field, it develops, manufactures and sells globally-certified series isolation transformers, surge protection devices, connector kits and prefabricated cable leads. The company's components meet the highest qualifications in materials and electrical design to withstand challenging installation in underground pits and cans and direct underground installation. Headquartered in Porvoo, Finland, EFLA supplies products to international airports around the world. For more information, visit www.efla.net.



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