

EFLA CABLE ASSEMBLIES FOR FRANGIBLE MASTS

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

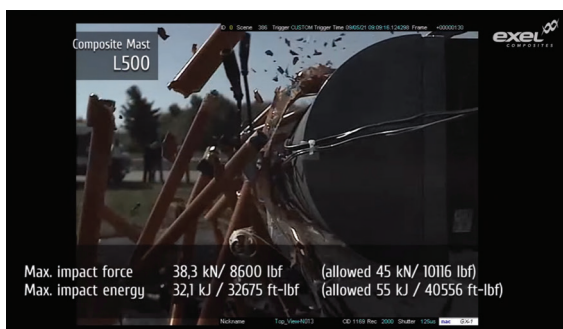


KDCE504 cable assemblies for frangible masts

KDCE504 prefabricated cable leads and KD504 connector kits meet the frangibility standards. They are equipped with a special break-away point which is secured by an additional connection sleeve. When an airplane crashes with the approach light mast, connector breaks safely and doesn't cause any additional hazard, like ignition with kerosin. Break-away connectors are fully compliant with ICAO Aerodrome Design Manual Part 6, Frangibility requirements.

Proven frangibility

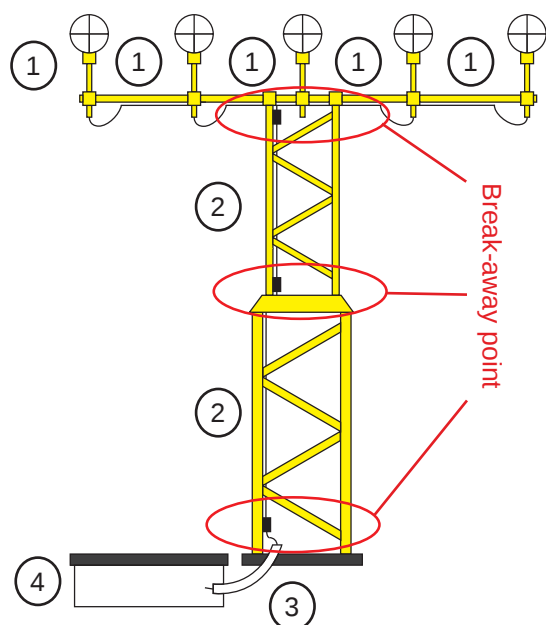
- Full scale impact test tested break-away mechanism with Exel masts according to the ADM Part 6 Chapter 5 and FAA AC 150/5345-45g, section 4
- Complete security for frangible structures
- Easy and fast plug and play assembly on-site
- Prevents any additional hazardous conditions in case of a impact



Cable information

Type	Plug & receptacle
Style, KDC504	Break-away, secondary
Style, KDC501	Style 1, secondary plug
Style, KDC502	Style 7, secondary receptacle
Housing	TPE molded

Cross section	2.5 mm ²
Length	5 - 5000 cm
Type	Two-core, 2 x 2.5 mm ²
Diameter of insulation (apporox.)	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 TPR 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
Certification	FAA L-824
Other specifications	MIL-C-3432, MIL-C-4921 & ICEA S-66-524



①	②	③	④	⑤
KDCEB.501.2.X	KDCE.504.2.X	KDC504.2.X	KD501	KD504



EFLA shields electrical connections – especially in the most demanding environments. We manufacture highly specialized components including transformers, connector kits, encapsulated electronics components and prefabricated cable assemblies for airfield ground lighting and other applications. Our story began over 30 years ago in Finland in northern Europe. Today we are one of the largest suppliers in this niche field with a true global footprint covering all continents. Our products can be found on most international airports around the world.

EFLA OY Kipinätie 3 • FI-06150 Porvoo, Finland • tel +358 (0)204 76 21 • fax +358 (0)204 76 2758 • www.efla.net