

5 kV Airfield Lighting Cables



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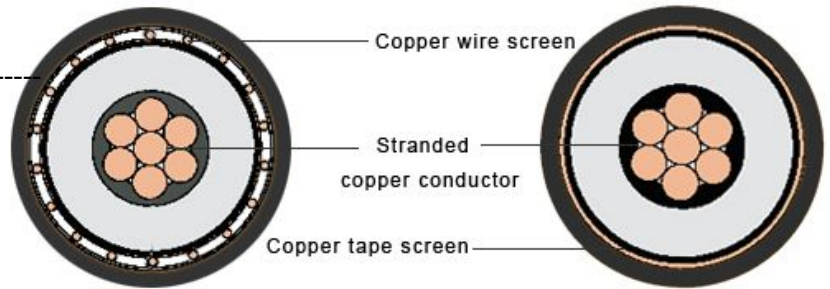
Add: (Changzhuang Village) Fumin Road, Zhongyuan District, Zhengzhou City, Henan P.R.C., China / Code: 450042
Tel.: 0086-371-67829367 / Fax: 0086-371-67828777

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FAA L-824 Type C Shielded 5kV

Standards

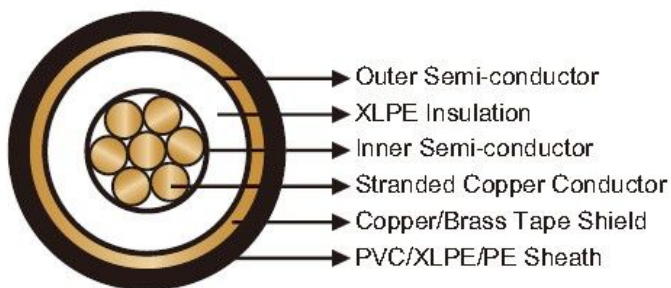
FAA AC 150 / 5345-7E
 FAA L-824 Type
 ICEA S-93-639 / NEMA WC74



Application

These cables are used for interconnecting the transformers and the current regulator of airfield lighting systems in series circuits, suitable for fixed applications such as taxiways, runways, touchdown zones, land and hold short lighting systems, can be installed in conduit, duct, aerial and direct burial

Construction



Conductor: Stranded bare or tinned copper.

Inner Semi-Conductor: Extruded semi-conducting compound.

Insulation: XLPE.

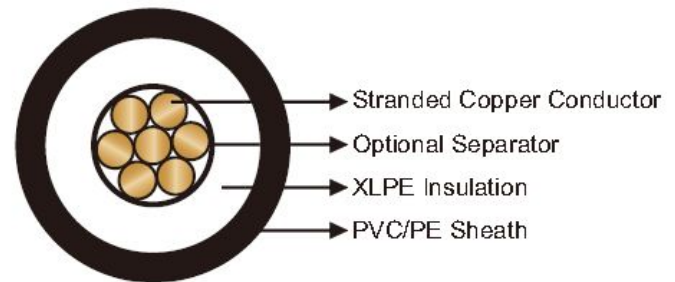
Outer Semi-Conductor: Semi conducting tape or extruded.

Shield: Copper or brass tape(s). Tinned copper wire braid can be offered upon request.

Sheath: PVC. PE/XLPE can be offered upon request.

Sheath colour: Black

Construction



Conductor: Stranded bare copper to ASTM B3 and ASTM B8.

Optional Separator: Optional separator or conductor shield be applied.

Insulation: XLPE.

Sheath: PE/PVC

Sheath colour: Black



Technical data

Operating voltage: 5000 V
 Test voltage: 20000 VAC, according to IEC TS 62100
 Partial discharge level test: 5000 V, no partial discharge
 Operation temperature: - 40 °C to + 90 °C
 Permissible short term: + 250 °C
 Lowest ambient temperature: - 60 °C
 Bending radius: Static installation > 10 × outer

Special version upon request

Transversal waterproof version with aluminium tape
 6 kV version
 1 × 10 mm & RM version

Advantages

Skydrol and hydrolysis resistant
 Good behaviour in low ambient temperature



Dimensions and Weights (Copper Tape Shield)

Construction	Part No.	No. of strands	OuterΦ	Insulation thickness	Shielding material	Configuration	Weight
						Shielding semiconductor	
nxmm ²			mm	mm			kg/km
1x6RM	300823	7	12.5	2.5	copper	longitudinal	187
1X8 AWG RM		7	13.0	2.5	copper	longitudinal	212

Electrical specifications

Construction	Part No.	Conductor resistance	Shielding resistance	Operating capacity
		20°C	20°C	
nxmm ²		Ω/km	Ω/km	μF/km
1x6RM	300823	≤3.08	≤5.90	0.157
1X8 AWG RM		≤2.10	≤5.25	0.181

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FAA L-824 Type B Shielded 5kV

Standards

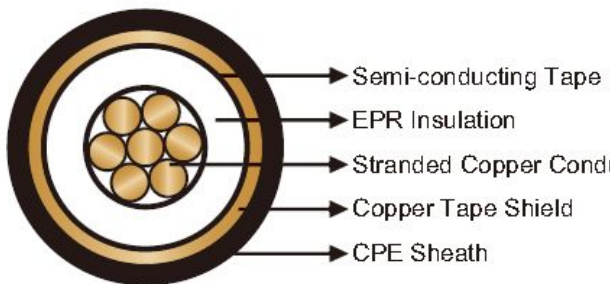
FAA L-824 Type B

ICEA S-93-639 / NEMA WC74

Applications

These cables are used for interconnecting the transformers and the current regulator of airfield lighting systems in series circuits, suitable for fixed applications such as taxiways, runways, navigational aids, and obstruction lighting, can be installed in conduit and direct burial.

Construction



Conductor: Stranded bare or tinned copper.

Insulation: EPR.

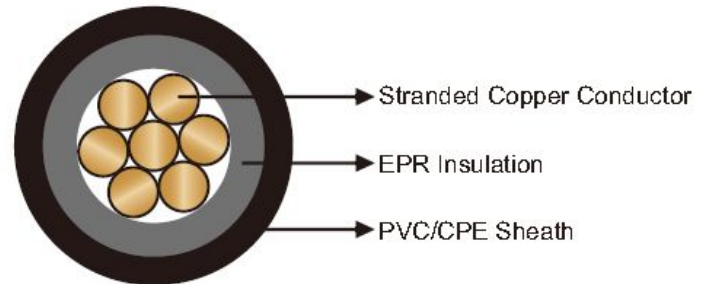
Semi-Conductor: Helically applied semi-conducting tape.

Shield: Tinned copper tape.

Separator: Separation tape.

Sheath: CPE.

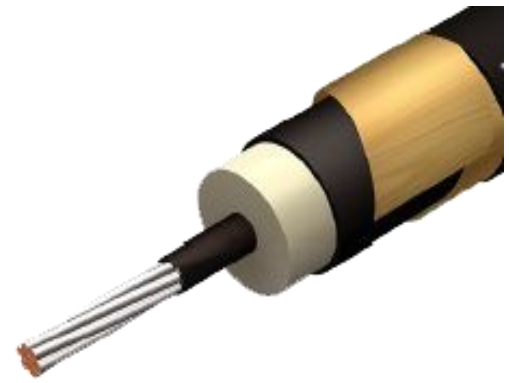
Construction



Conductor: Stranded bare or tinned copper conductor.

Insulation: EPR.

Sheath: CPE/PVC.



Technical data

Operating voltage: 5000 V
 Test voltage: 20000 VAC, according to IEC TS 62100
 Partial discharge level test: 5000 V, no partial discharge
 Operation temperature: $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$
 Permissible short term: $+250\text{ }^{\circ}\text{C}$
 Lowest ambient temperature: $-60\text{ }^{\circ}\text{C}$
 Bending radius: Static installation $> 12 \times$ outer

Special version upon request

Transversal waterproof version with aluminium tape
 6 kV version
 1 \times 10 mm & RM version

Advantages

Skydrol and hydrolysis resistant
 Good behaviour in low ambient temperature
 Halogen free:
 Abrasion Resistant

Dimensions and Weights (Copper Tape Shield)

Construction	Part No.	No. of strands	Outer Φ	Insulation thickness	Shielding material	Configuration	Weight
			mm	mm		Shielding semiconductor	kg/km
1x6 RM		7	12.5	2.3	copper	longitudinal	194
1X8 AWG RM		7	13.0	2.5	copper	longitudinal	225

Electrical specifications

Construction	Part No.	Conductor resistance 20 $^{\circ}\text{C}$	Shielding resistance 20 $^{\circ}\text{C}$	Operating capacity
nxmm2		Ω/km	Ω/km	$\mu\text{F}/\text{km}$
1x6RM		≤ 3.08	≤ 5.90	0.157
1X8 AWG RM		≤ 2.10	≤ 5.25	0.181

