chapter:

BETA LUX ® 5 kV 7.1

Application

- feeder cable for interconnecting the transformers and the current regulator of airfield lighting systems in series circuits
- suitable for drawing into conduits and laying in trenches
- for fixed applications such as taxiways, runways, touchdown zones, land and hold short lighting systems

Certificate basis

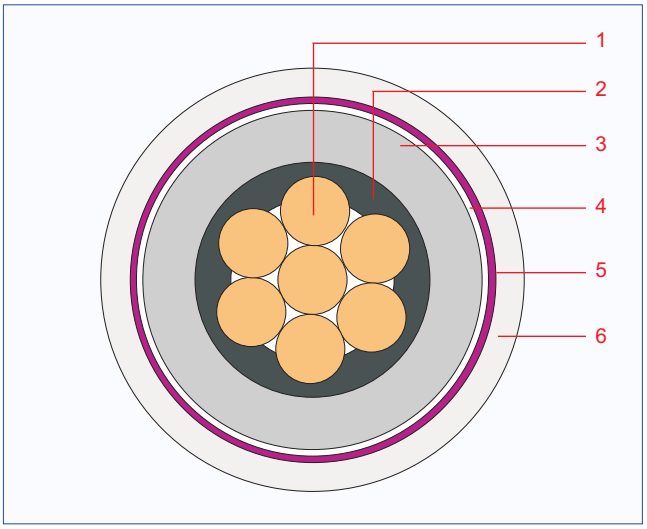
- FAA AC 150/5345-7E (L824) Type C
- halogen free IEC 60754-1, EN 50267-2-1
- no corrosive gases IEC 60754-2, EN 50267-2-2
- no toxic gases NES 02-713, NFC 20-454

Description/properties

- optimalized for medium voltage
- increased resistance to temperature
- stranded conductors
- semiconducting layer and insulation
- longitudinally waterproof with an integrated water blocking swelling tape

Construction

- bare copper strands, IEC 60228 class 2 conductor
- extrude dinner semi conductor
- XLPE insulation
- outer semi conductor tape
- copper tape shielding
- outer sheath: polyolefin copolymer, halogen free
- resistant to Skydrol (aircraft hydraulic oil), de-icing liquid, oil, fuel, water, lean acid and alcali solvents



1. conductor
2. inner semi conductor
3. insulation
4. semi conductor swelling tape
5. copper tape shielding
6. outer sheath

Mechanical parameters

- weight 220 kg/km
- number of stands 7
- insulation thickness 2,5 mm
- bending radius fixed installations > 9×outer diameter
- outer-diameter 14 mm
- lifespan min. of 30 years

Elektrical parameters

- operating voltage 5000 V
- test voltage 15 000 V AC
- partial discharge level test every cable length 100% 12 500 V < 5 pC
- temperature range -40/+90 °C
- conductor resistance of 3,08 Ω/km at +20 °C temperature
- isolation resistance min. 10 MΩ/km
- nominal current 6,6 A
- loss of performance up to 1 km max. 150 W



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chapter:

7.1 AMERACE

Application

- feeder cable for interconnecting the transformers and the current regulator of airfield lighting systems in series circuits
- for mobile applications such as taxiways, runways, touchdown zones, land and hold short lighting systems

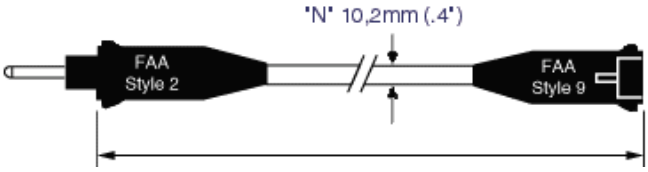


Certificate bases

- FAA L823 Type I, Class A

Description/properties

- prefabricated flexed primary cable AWG8, 5 kV
- 25 ampere, 90 °C
- 1×plug (FAA L-823 Style 2)
- 1×receptacle (FAA L-823 Style 9)
- cable length to order in multiples of 0,5 m



ORDERING CODES **54MXN-xx**

Execution
P=plug
R=receptacle
Cable length
cable length to order in multiples of 0,5 m

Examples of order codes

Type	Length	Description
54MPRN-1	1 m	prefabricated primary cable AWG8, 5 kV
54MPRN-1,5	1,5 m	prefabricated primary cable AWG8, 5 kV
54MPRN-2	2 m	prefabricated primary cable AWG8, 5 kV
54MPRN-3	3 m	prefabricated primary cable AWG8, 5 kV
54MPRN-5	5 m	prefabricated primary cable AWG8, 5 kV
54MPRN-15	15 m	prefabricated primary cable AWG8, 5 kV
54MPRN-20	20 m	prefabricated primary cable AWG8, 5 kV
54MPRN-35	35 m	prefabricated primary cable AWG8, 5 kV
54MPRN-60	60 m	prefabricated primary cable AWG8, 5 kV
54MPRN-100	100 m	prefabricated primary cable AWG8, 5 kV
54MPRN-120	120 m	prefabricated primary cable AWG8, 5 kV

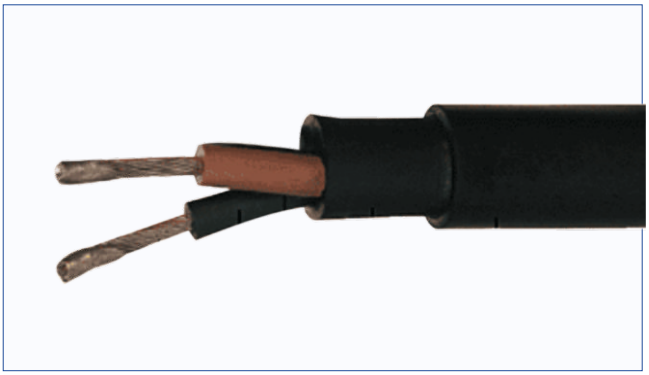
chapter

H07RN-F

7.1

Application

- secondary circuit cable for airfield lighting



Description/properties

- for mains supply and flexible cords designed for electrical appliances and equipment used for the construction industry and agriculture when there is high mechanical stress, and in various environments, i.e. ordinary, cold, hot, damp and in water
- H07RN-F cables also have good performance in hard climatic conditions and are oil resistant

Technical parameters

Description	H07RN-F, 2X2,5	H07RN-F, 2X4
Shape of conddition	RF	RF
Diameter approximately (mm)	12	14
Cable mass (kg/km)	190	271
Radius of bend (mm)	48	70
Effect. resist. of conductors (Ω/km)	7,980	4,950

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chapter:

7.1 AMERACE

Application

- prefabricated flexed secondary cable for airports and heliports

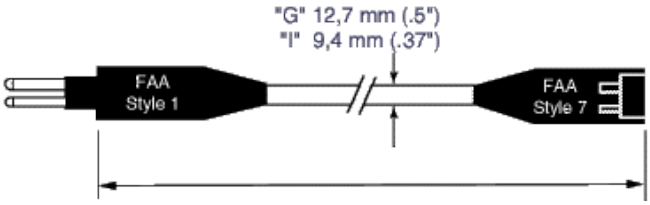


Certificate bases

- FAA L823 Type II, Class A

Description/properties

- cross section
  - 2×12 AWG (1,3 mm2)
  - 2×16 AWG (3,3 mm2)
- watertight
- rated 600 volts between contacts, 1500 volts to earth, 20 amps, 90°C
- 1×plug (FAA L-823 Style 1)
- 1×receptacle (FAA L-823 Style 7)
- cable length to order in multiples of 0,5 m



SKU **95MX X - xx**

Execution
P=plug
R=receptacle

Cross section
"I" = 2×16 AWG 3,3 mm^2
"G"= 2×12 AWG 1,3 mm^2

Cable length
cable length to order in multiples of 0,5 m

Examples of order codes

Type	Length	Description
95MR "I" - 0,75	0,75 m	receptacle 2×16 AWG 3,3 mm^2
95MP "I" - 0,85	0,85 m	plug 2×16 AWG 3,3mm^2
95MPR7 "I" - 1	1 m	plug and receptacle 2×16 AWG 3,3 mm^2
95MPR7 "I" - 1,5	1,5 m	plug and receptacle 2×16 AWG 3,3 mm^2
95MPR7 "G" - 3	3 m	plug and receptacle 2×12 AWG 1,3 mm^2
95MPR7 "G" - 5	5 m	plug and receptacle 2×12 AWG 1,3 mm^2
95MR7 "G" - 10	10 m	receptacle 2×12 AWG 1,3 mm^2
95MPR7 "G" - 50	50 m	plug and receptacle 2×12 AWG 1,3 mm^2
95MPR7 "G" - 100	100 m	plug and receptacle 2×12 AWG 1,3 mm^2