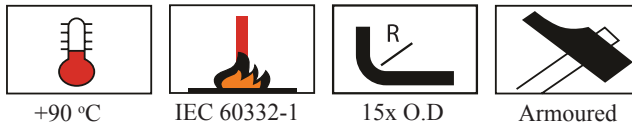


Conductor	Stranded (class 2) and compacted Tinned annealed copper wires
Insulation	XLPE (cross-linked Polyethylene)
Core Screen	Consist of semiconductor layers and metallic screen
Conductor Screen	Semiconductor compound applied on conductor
Insulation Screen	Semiconductor Tape applied on insulation
Core Metallic Screen	Copper Tape
Inner Covering (Bedding)	Extruded PVC
Armour	Galvanized Steel Wires
Over-Sheath	Extruded PVC



### Voltage grade of airport lighting cable :

1. The Voltage Grade to be taken into consideration for single-core cable used in series lighting circuits is the continuous AC working voltage between core and earth.

A 5 kV FL2XSYRY cable can operate continuously and safely at an AC potential of 5000V to earth.

2. On the contrary, other National Standards define voltage grades differently, which can be misleading when comparing characteristics and performances of airport lighting cables. For example:

- VDE 0271, 'The German Standard applicable to PVC- Insulated core rates the FLYCY airfield lighting cables as 3.0/6.0kV or 5.0/10.0 kV. The first figure ( $U_0$ ) represents the working voltage to earth, the second figure (U) the working voltage of a single-phase, multiple circuit made of two single- core FLYCY cables. According to correct electrical practice this cable (3.0/6.0kV) is in fact a 3 kV cable. The same applies to the FLYCY 5.0/10.0 kV which corresponds to a 5kV FL2XSYRY cable.

3. British Standards (BSI) rate the airport lighting cables as 1.9/3.3 kV. This corresponds to a working voltage to earth of 1.9kV, while 3.3kV may be applied between the cores of a three-phase distribution system made of 3 each single-core airport lighting cables.

Nominal cross section area of conductor	Conductor Diameter	Insulation thickness	Diameter Under Armour	Armour Wire Diameter	Sheath thickness	Overall Diameter	Weight	Standard Packing Length
mm <sup>2</sup>	mm	mm	mm	mm	mm	mm	Kg/Km	meter
1x6rm 3kV	2.9	2.0	9.8	0.9	1.8	15.2	460	1000
1x6rm 5kV	2.9	2.3	11.3	0.9	1.8	16.7	520	1000
1x10rm 5kV	3.8	2.5	12.6	0.9	1.8	18.0	620	1000