ICALC - COVERED ALUMINUM CONDUCTORS

ICALC-50-15

Description

Suitable for urban power distribution lines, ALUMINUM INSULATED CONDUCTOR WITH XLPE is the substitute for bare aluminum cable, when it needs to be used in regions with a chance of accidental contact, such as wood areas.

Consisting of a stranded conductor composed of aluminum solid conductors with or without lock. Both the 15kV and 25kV cables have a semiconductor layer (optional) and cross-linked polyethylene (XLPE) coverage, resistant to the action of the sun, abrasion and with high resistance to electrical tracking. The cover is 3mm thick for 15Kv cables and 4mm for 25kV cables, they are manufactured in the metric series (mm²).



Datasheet

Conductor Characteristics	
Nominal Cross Section (mm²)	50
Qty. Of Wires	7
Nominal Diameter - Conductor (mm)	8,30
Semiconductor Layer Thickness (mm)	-
Coverage Thickness (mm)	3
Outside Diameter (mm)	14,30
Mechanical Characteristics	
Nominal Weight (kg/km)	238,00
Breaking Load (daN)	650
Minimal Stretching Breaking Load - Coverage (%)	-
Minimal Breaking Load - Coverage (Mpa)	-
Temperatura máx. do Condutor em Operação (ºC)	-
Temperatura Máx. do Condutor em Curto Circuíto (ºC)	-
Electrical Characteristics	
Classe de Tensão da Isolação (kV)	15
Maximum Resistance to 20°C in DC (ohms/km)	0,641
Resistência Máxima à 90ºC em CA - Condutor (ohms/km)	-
Current Capacity at AC 70°C (A)	221
Capacidade de Corrente em CA 90ºC (A)	275

Package	
Reel Type	-
Nominal Length (m)	-
Net Weight per Reel (kg)	-
Gross Weight per Reel With Packing (kg)	-