

TECHNICAL DATA

ROUND & RECTANGULAR WIRE - TEXTILE COVERED BARE COPPER OR ALUMINIUM + KAPTON® POLYIMIDE FILM

DESCRIPTION



Round or rectangular copper or aluminium + Kapton® FN heat sealable Polyimide film or Kapton® FCR corona resistant heat sealable Polyimide film. Separate technical data sheets for Kapton® FN & Kapton® FCR are available on request.

APPLICATIONS

Traction motors in heavy duty applications & crude oil pumps.

PROPERTIES

Temperature class	220°C
Conductors	Round or rectangular copper or aluminium
Diameters, round copper	1.120 - 6.000mm
Cross sections, rectangular copper	7.00 - 300mm ²
Diameters, round aluminium	3.00 - 12.00mm
Cross sections, rectangular aluminium	6.00 - 75.00mm
Breakdown voltage	4 kV (Specimens bent as table below)
Textile type	Kapton® FN or Kapton® FCR
Layers	1 or 2, up to a maximum of 66% overlap
Standard insulation increase (Or according to customer requirements)	1 layer 50% lapped - 0.15mm or 0.20mm 2 layers 50% lapped - 0.30 or 0.35mm 1 layer 53 - 57% lapped - 0.23mm
Methods of test	IEC 60851
Standards (Round Copper)	IEC 60317-43
Standards (Rectangular Copper)	IEC 60317-44
Dimensions & Insulation increase (Copper)	IEC 60317-0-4
Standards (Packaging)	IEC 60264

FLEXIBILITY OF RECTANGULAR COPPER

Bend Direction	Conductor Width	Conductor Thickness	Mandrel Diameter
Flat	All widths	All thicknesses	2 x thickness
Edge	≤ 10mm	All thicknesses	3 x width
Edge	≥ 10mm	All thicknesses	4 x width

*After bending 180° (mandrel sizes as above) the specimens shall show no cracks reaching the bare copper

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