FRCABLE
PV CABLE MANUFACTURER

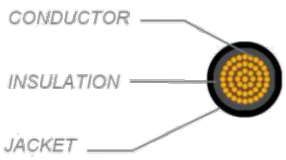
DATASHEET

TÜV EN50618 H1Z2Z2-K

Item No. FREN104B

TÜV EN50618 H1Z2Z2-K (FR-6mm²-B)

Rating:	
Voltage:	DC 1500V
Temperature:	-40℃--90℃



Descrlption:	
Conductor:Tinned annealed copper	
Insulation:	125℃
Jacket:	125℃

Applicatlon:

Speoifically designed for connecting photovoltaic system components inside ang outside of building and equipment with high mechanical requirements and extreme weather conditions.For permanent installations.

General characteristics:

Construction	
Conductor	
Area(mm²)	1*6mm²
Construction(N/mm)	84/0.285
Insulation	
Standard thickness	1.02
Jacket	
Standard thickness(mm)	0.9
OD.(mm)	6.87
Max.mΩ/m	3.39
Ca. mΩ/m	3.28
Ampacity(A)	70
Weight rated	91.11

Electrical properties	
Insulation resistance(90℃)(Ω-km)	≧579MΩ.KM
Withstand voltage(V/5min)	AC 6500
Min bending radius(mm)	4*D

Packaging	
BOX(art.code FR-100-6mm² / FR-500-6mm²)	
Size:	280x280x100mm
Weight:	±10Kg
Cablee length box:	100m
PALLET (art.code FR-100-6-150pcs-15000m)	
Size:	1100x1100mm
Amount of boxes on one pallet:	150pcs

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Main performance parameter of finished cable	
Voltage test of finished cable	⩾1(h)
Min.time of dipping in water	11000(V)
Testing voltage (AC)	5(min)
Min.voltage applying time at one time	no breakdown
Test result	
Sheated surface resistance	250mm
Length of specimen:	$\geqslant 10^9\ \Omega$/cm
Test result	
Penetrate the insulation resistance	20℃
Temperature	$\geqslant 10^{14}\ \Omega$/cm
Test result	
High temperature stress	140℃
Temperature	
Test result	A: No breakdown
A: with 1.2 Voltage test	B: Wall thickness
B: deep pressure	50%
Damp-heat test	
Temperature	90℃
Humidity	85%
Test result	
Aging before and after the tenslle strength of Change	⩽30%
Aging before and after the elongation at break of Change	⩽-30%
	168h
Acid-alkali Resistance	
Min.time of dipping in	⩽-30%
Test result	⩾100
Aging before and after the tensile strength of Change	
Elongation	-40℃
	16h
Low-temperature bending	No crack
Temperature	
Time	
Test result	200x106%
	72h
Ozone resistance	No crack
Ozeone concentration	
Time	
Test result	⩽2%
Heat schrinkable jacket test	
Test result	
Flame retardant	⩾50mm