



EMAT

DATASHEET

TÜV EN50618 H1Z2Z2-K

Item No. FREN105B

TÜV EN50618 H1Z2Z2-K (FR-10mm²-B)

Rating:

Voltage:	DC 1500V
Temperature:	-40°C--90°C

Description:

Conductor:Tinned annealed copper

Insulation: 125°C

Jacket: 125°C

CONDUCTOR

INSULATION

JACKET



Application:

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

General characteristics:



Construction

Conductor	
Area(mm ²)	1*10mm ²
Construction(N/mm)	80/0.4
Insulation	
Standard thickness	0.7
Jacket	
Standard thickness(mm)	0.8
OD. (mm)	7.13
Max.mΩ/m	1.95
Ca. mΩ/m	1.75
Ampacity(A)	98
Weight rated	148.71

Electrical properties

Insulation resistance(90°C)(Ω-km)	≥ 579MΩ.KM
Withstand voltage(V/5min)	AC 6500
Min bending radius(mm)	4*D

Packaging

BOX(art.code FR-100-10mm² / FR-500-10mm²)

Size: 280x280x100mm

Weight: ±15Kg

Cable length box: 100m

PALLET (art.code FR-100-10-150pcs-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	
Length of specimen:	250mm
Test result	≥10 ⁹ Ω /cm
Penetrate the insulation resistance	
Temperature	20℃
Test result	≥10 ¹⁴ Ω /cm
High temperature stress	
Temperature	140℃
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 tensile strength of Change	≤30%
Aging before and after the elongation at break of Change	≤-30%
Acid-alkali Resistance	
Min.time of dipping in	168h
Test result	≤-30%
Aging before and after the tensile strength of Change	≥100
Elongation	-40℃
Low-temperature bending	
Temperature	16h
Time	No crack
Test result	
Ozone resistance	200x106%
Ozeone concentration	72h
Time	No crack
Test result	
Heat shrinkable jacket test	≤2%
Test result	
Flame retardant	≥50mm