

Application

Double insulated, moisture curable cross-linked cables for Photovoltaic power applications.

Construction

Conductor: Tinned copper strands, according to VDE 0295 / IEC 60228, class 5 / UL854 class B

Insulation: Polyolefin Copolymer moisture curable cross-linked

Outer sheath: Polyolefin Copolymer moisture curable cross-linked

Sheath color: Black, Red, Blue, All Color

Technical specification

voltage rating: U_0/U 0.6/1KV

Test voltage: 3000 V, 60 Hz, 1 min.

Temperature rating: 90 °C dry or wet

194 °F dry or wet

Ambient temperature: > 25 years (TÜV)

- 40 °C up to + 90 °C


- 40 °F up to + 194 °F

Max. short circuit temperature: 250 °C, +482 °F

Bending radius: $\geq 4 \times$ outer diameter



Marking

 TÜV DPV***V PV1-F 1X***mm² 20##

Standards / Material properties

Approvals: TÜV

Application standards: 2Pfg 1169,

Features & Benefits

Robust design.

Moisture curable cross-linked.

Resistance against UV, water, ozone, fluids, oil, salt and general weathering.

Flame retardant.

Three colors: Red, Blue and Black.

RoHS compliant.

TUV certified.

Compatible to all popular connectors

TUV Specification of Photovoltaic Power Cables				
European Standard TUV Double Layer U ₀ /U 0.6/1KV				
Item	PV1-F	DPV-6025V	DPV-6040V	DPV-6060V
TUV	mm ²	2.50	4.00	6.00
Section Size	AWG	13	11	9
Structure		50/0.254 TC	80/0.254TC	84/0.30 TC
Conductor ID	mm	2.1	2.6	3.2
Thickness	mm	0.70	0.70	0.80
XLPE Insulation ID	mm	3.5	4.0	4.8
Thickness	mm	0.90	0.95	1.05
XLPE Jacket OD	mm	5.3	5.9	6.9
OD Tolerance	mm	±0.2	±0.2	±0.2
Bending Radius	mm	> 4 x CABLE OUTER DIAMETER		
Weight	kg / 100M	5.39	7.51	10.36
Allowable Current	A / mm ²	31.2	41.2	51.8
Conductor Resistance R ₂₀ max	Ω/km	8.21	5.09	3.39