



Product Technical Characteristics	TECSUN
TÜV Cert.No.	X
VDE Reg.No.	X
Rated voltage AC 0.6/1.0 kV	X
Maximum permissible operating voltage in DC systems 0.9/1.8 kV	X
Ampacity Acc. DKE/VDE (DIN VDE 0298-4)	X
Maximum permissible ambient temperature +90°C	X
Minimum permissible temperature -40°C	X
Maximum permissible operating temperature of the conductor +120°C	X
<i>30 years lifetime expectancy</i> at 90°C permanent temperature 20.000 h acc. DIN VDE 0304 Part 21 (IEC 60216-1) / Arrhenius-Diagramme	X
Shortcircuit temperature +250°C	X



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Resistance to cold	
Bending test at low temperature acc. DIN EN 60811-1-4	X
Impact Test similar to DIN EN 50305	X
Damp-Heat Test	
Acc. To EN 50068-2-78, 1000 h at 90°C and 85% humidity	X
Conductor	
Electrolytic copper, tinned, Class 5 according to IEC 60228 (DIN VDE 0295)	X
Insulation	
HEPR 120°C similar to IEC 605021 (compound type EI6 / EI8)	X
Core identification	X
Sheath	
EVA 120 °C based on DIN VDE 0282 part 1, HD 22.1 (compound type EM4 / EM8) Insulation and sheath are connected solidly (Two-layer-insulation)	X
Sheath-colours (black, blue, red)	X
Marking: (factory code) PRYSMIAN TECSUN (PV) PV1F (crosssection) 0.6/1 KV (VDEREG./TÜV)	X



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Tensile load	
15 N/mm ² in operation, 50 N/mm ² during installation	X
Min. Bending Radius	X
Abrasion	
Acc. To DIN EN 53516: against abrasive paper	X
Sheath against sheath (internal testing)	X
Sheath against metal (internal testing)	X
Sheath against plastic (internal testing)	X
Shrinkage test	
According to EN 60811-1-3	X
Pressure test at high temperature	
According to EN 60811-3-1	X
Dynamic penetration test	
According to Requirements for cables for PV systems, DKE/VDE 411.2.3	X
Shore-hardness	
85 according to DIN EN 53505	X
Ozone resistance	
according to DIN EN 50396 test type B, HD 22.2 test type B	X
UV resistance	
according HD605/A1-2.4.20	X



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Absorption of water (gravimetric) according to DIN VDE 0473-811-13, DIN EN 60811-1-3	X
Mineral oil resistance 24h, 100°C according to DIN VDE 0473-811-2-1, DIN EN 60811-2-1	X
Acid and alkaline resistance According to EN 60811-2-1, 7 days, 23°C (N-Oxalic acid, N-Sodium hydroxide)	X
Ammonia resistance 30 days in saturated ammonia atmosphere (internal testing)	X
Behaviour in case of fire according to DIN VDE 0482 Part 332-1-2, DIN EN 60332-1-2 and DIN VDE 0482 Part 266-2-5, DIN EN 503059	X
Low smoke emission according to DIN VDE 0482 Part 268-2, DIN EN 50268-2	X
Corrosivity according to DIN EN 50267-2-2	X
Toxicity according to DIN EN 50305, ITC index < 3	X
Ecological innocuousness RoHS conform	X
	X



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Protecting class II	X
Laying directly in the ground	X
Available Cross Sections	
1.5 mm ² - 240 mm ²	X