



TECPLUG PV Connectors



Technical Data

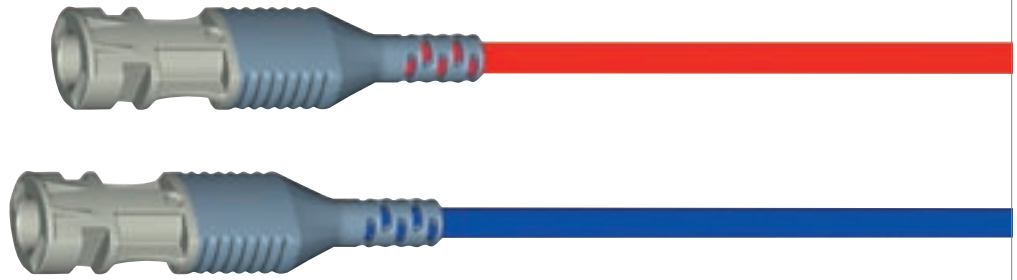
Manufacturer	PRYSMIAN Kabel und Systeme GmbH Cable plant Neustadt near Coburg / DE in Cooperation with Wieland Electric GmbH, Bamberg
Trademark	TECPLUG
Type designation	PST40I1
Approvals	DIN V VDE V 0126-3 TÜV Certificate No. R 60018371 IEC 61730-1
Application	PRYSMIAN Solar connectors TECPLUG are intended for the use in photovoltaic power supply systems at tensions up to 1.000V DC and currents up to 40A per contact according to application class A. Outdoor and indoor usage as fixed or free installation is permitted. They are suitable for applications in/at equipment with protective insulation (protecting class II).

Electrical Parameters	Rated voltage	1.000 V
	Overvoltage category	3
	Protection class	II
	Test voltage	6 kV AC (1 min.)
	Ampacity	According to IEC 60512
	Rated current (85°C) for cross sectional areas	
	- 1,5 mm ²	17,5 A
	- 2,5 mm ²	24 A
	- 4,0 mm ²	32 A
	- 6,0 mm ²	40 A
	- 10 mm ²	40 A
	Contact resistance according to EN 60352-9	< 1mOhm
Protection against accidental contact	Test according to IEC 60512, Test load 10N	
Clearance	14mm according to IEC 60664-1	
Creepage distance	28mm according to IEC 60664-1	
Impulse withstand voltage	8 kV according to IEC 60664-1	

Thermal Parameters	Max. permissible operating temperature	110°C
	Resistance to cold	-40°C, Impact resistance test at low temperature according to DIN V VDE V 0126-3 (IEC 60068-2-75)
	Alternating temperature test	-40°C to +85°C according to IEC 60068-2-14, Test Nb
	Damp heat test	85°C, 85% rel. humidity for 1000h according to IEC 61215 10.13

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Mechanical Parameters	Crimp connection, withdrawal strength	According to IEC 60352-2
	Stress compensation for tensile load	According to IEC 60512 17c
	Stress compensation for torsional load	According to IEC 60512 17d
	Drop test	According to IEC 60512 7b
	Insertion/withdrawal cycles	100 operations without load
	Bending test	According to DIN V VDE V 0126-3, similar to IEC60309-1
	Strain relief	According to IEC 60512-9
	Pull off force	80 N, according to IEC 60512 15f
	Degree of protection	IP 20 (unplugged) IP 68 (plugged)
	Tightening torque	3 - 3,5 Nm for cable glands to ensure strain relief and tightness
Chemical Parameters	Resistant against	Oil and Grease, Alcohol, Ammonia, Acids and Alkalines, Seawater. Other resistances on request.
	UV- and weather resistance	According to ISO 4982-2, Method A
	corrosion protection	According to ISO 6988
	Behaviour in case of fire	
	- Insulation material of body	Test according to IEC 60695-11-20 Glow wire test according to IEC 61695-2-10, 650°C
- Insulation material carrying electrical contacts	Test according to IEC 60695-11-10 Glow wire test according to IEC 61695-2-10, 650°C	
- Combustion category	V2 according to IEC 60695-11-10	



Design features

Specification	Unipolar connector IP 68
Body	Polyamide (PA66)
Sealing	NBR (Nitrile-Butadien-Rubber)
Contact	
Male contact	- solid (screw machined) male contact silver-plated brass
Female	- solid (screw machined) female contact silver-plated brass
Marking	PST40I1 Ampacity/Cross sectional area +(Female) or -(Male)
Nominal cross section	1,5mm ² to 10mm ²
Trademark	TECPLUG

Selection and ordering data

Description	Nominal cross-section	Length of cable	1. End	2. End (others on request)	No of items per unit	Order No.
TECPLUG, pre-assembled connectors						
Pre-assembled cord	1 x 1,5 mm ²	100 cm	Male	free	100 pieces	5DX8 1 S 01 100 0
Pre-assembled cord	1 x 1,5 mm ²	100 cm	Female	free	100 pieces	5DX8 2 S 01 100 0
Pre-assembled cord	1 x 2,5 mm ²	100 cm	Male	free	100 pieces	5DX8 1 S 02 100 0
Pre-assembled cord	1 x 2,5 mm ²	100 cm	Female	free	100 pieces	5DX8 2 S 02 100 0
Pre-assembled cord	1 x 4,0 mm ²	100 cm	Male	free	100 pieces	5DX8 1 S 04 100 0
Pre-assembled cord	1 x 6,0 mm ²	100 cm	Female	free	100 pieces	5DX8 2 S 04 100 0
Pre-assembled cord	1 x 6,0 mm ²	100 cm	Male	free	100 pieces	5DX8 1 S 06 100 0
Pre-assembled cord	1 x 6,0 mm ²	100 cm	Female	free	100 pieces	5DX8 2 S 06 100 0
Pre-assembled cord	1 x 10 mm ²	100 cm	Male	free	100 pieces	5DX8 1 S 10 100 0
Pre-assembled cord	1 x 10 mm ²	100 cm	Female	free	100 pieces	5DX8 2 S 10 100 0
Pre-assembled cord	1 x 1,5 mm ²	200 cm	Male	Female	100 pieces	5DX8 1 S 01 020 4
Pre-assembled cord	1 x 2,5 mm ²	200 cm	Male	Female	100 pieces	5DX8 1 S 02 020 4
Pre-assembled cord	1 x 4,0 mm ²	200 cm	Male	Female	100 pieces	5DX8 1 S 04 020 4
Pre-assembled cord	1 x 6,0 mm ²	200 cm	Male	Female	100 pieces	5DX8 1 S 06 020 4
Pre-assembled cord	1 x 10 mm ²	200 cm	Male	Female	100 pieces	5DX8 1 S 10 020 4
TECPLUG, for assembling						
Male connector	1,5 mm ²	---	---	---	100 pieces	5DX8 200 015 00
Female connector	1,5 mm ²	---	---	---	100 pieces	5DX8 100 015 00
Male connector	2,5 mm ²	---	---	---	100 pieces	5DX8 100 025 00
Female connector	2,5 mm ²	---	---	---	100 pieces	5DX8 200 025 00
Male connector	4,0 mm ²	---	---	---	100 pieces	5DX8 100 040 00
Female connector	4,0 mm ²	---	---	---	100 pieces	5DX8 200 040 00
Male connector	6,0 mm ²	---	---	---	100 pieces	5DX8 100 060 00
Female connector	6,0 mm ²	---	---	---	100 pieces	5DX8 200 060 00
Male connector	10 mm ²	---	---	---	100 pieces	5DX8 100 100 00
Female connector	10 mm ²	---	---	---	100 pieces	5DX8 200 100 00
TECPLUG, bulkhead connectors						
Male connector	1,5 mm ²	-	-	-	100 pieces	5DX8 100 015 GA
Female connector	1,5 mm ²				100 pieces	5DX8 200 015 GA
Male connector	2,5 mm ²	-	-	-	100 pieces	5DX8 100 025 GA
Female connector	2,5 mm ²				100 pieces	5DX8 200 025 GA
Male connector	4,0 mm ²	-	-	-	100 pieces	5DX8 100 040 GA
Female connector	4,0 mm ²				100 pieces	5DX8 200 040 GA
Male connector	6,0 mm ²	-	-	-	100 pieces	5DX8 100 060 GA
Female connector	6,0 mm ²				100 pieces	5DX8 200 060 GA
Male connector	10 mm ²				100 pieces	5DX8 100 100 GA
Female connector	10 mm ²				100 pieces	5DX8 200 100 GA
Accessories						
Tool kit	complete				1 piece	5DX8 000 000 WK
Tool kit	basic				1 piece	5DX8 000 001 WK
System kit					1 piece	5DX8 000 000 SK