

CABLE FOR USE IN PHOTOVOLTAIC-SYSTEMS


TECHNICAL FEATURES

565

Rated Voltage	Max. operating temperature	Min. Temperature of installation	Max. Temperature of short circuit	Min. internal bending radius	Max mechanical stress
600/1000	90-120 °C	-40 °C	200 °C	6xD	5 Kg/mm ²

CONSTRUCTION FEATURES

Conductors :	Flexible cord in metal-coated annealed copper (HD 383), class 5.
Insulation :	Special crosslinked compound LSOH (Halogen free)
Sheath :	Special crosslinked compound LSOH (Halogen free)
Identif. colours :	Core identification: white or black. Sheath standard colour: black - red.
Standards :	Flame retardant and halogen free cable. 2 Pfg 1169, RoHS 2011/65/UE. Period of use: 25 years in standard conditions. - Temperature index: 120 °C based on CEI EN 60216-1 (20.000 hours) - UV-Resistance according to HD605/A1 - Ozone resistant according to EN 50396 - Flame retardant according to EN 60332-1-2 - Halogen free according to EN 50267-2-1, EN 60684-2

GUIDE TO USE

 Max rated voltage AC U₀/U 0,6/1 KV; DC 1,8 Kv (conductor-conductor, non earthed system, circuit not under load)

Suitable for cabling in photovoltaic system.

 Current carrying capacity: Single cable on surfaces : 4 mm² = 52 A, 6 mm² = 67 A, 10 mm² = 93 A. To cables adjacent on surfaces : 4 mm² = 44 A, 6 mm² = 57 A, 10 mm² = 79 A

DIMENSIONAL FEATURES AND ELECTRICAL PROPERTY

Number and nominal cross-sectional area of conductors (n° x mm ²)	Mean overall diameter (mm)	Indicative weight of Cable (g / m)	Conductor			Insulation		Sheath		Current ratings (A) with ambient temp. lower than:				Article Code
			Diameter max. of wires (mm)	Max. resistance		Thickness (mm)		Thickness (mm)		30°C	30°C	30°C	20°C	
				Res. El. (ohm/Km at 20° C)	RedCu	Sn Cu.	Mid.	Min.	Mid.	Min.	F M*	F I*	P L*	
1x2,5	4,7	40	0,260	7,980	8,210	0,7	0,53	0,6	0,41	-	-	-	-	LSOL01025
1x4	5,2	56	0,310	4,950	5,090	0,7	0,53	0,6	0,41	-	55	-	-	LSOL01040
1x6	5,8	76	0,310	3,300	3,390	0,7	0,53	0,6	0,41	-	70	-	-	LSOL01060
1x10	6,8	120	0,410	1,910	1,950	0,7	0,53	0,6	0,41	-	98	-	-	LSOL01100
1x16	8	178	0,410	1,210	1,240	0,7	0,53	0,7	0,49	-	-	-	-	LSOL01160

* [FM = Free movement] [FI = Fixed installation] [PL = Pipe laying] [EL = Earth laying]