

## CABLE FOR USE IN PHOTOVOLTAIC SYSTEMS

### TECHNICAL FEATURES

Rated Voltage	Max. operating temperature	Min. temperature of installation	Max. Temperature of short circuit	Min. internal bending radius	Max mechanical stress
1/1 kv	90-120°C	-40°C	250°C	6xD	5kg/mm <sup>2</sup>

### CONSTRUCTION FEATURES

**CONDUCTORS:** flexible cord in metal-coated annealed copper (HD 383), class 5.

**INSULATION:** Special crosslinked compound LSOH (Halogen Free) **SHEATH:** special cross linked compound LSOH (Halogen Free)

**IDENTIFICATION COLOURS:** Core identification: white or black. Sheath standard color: black - red. Marking: PECSO MN H1Z2Z2-K 1x6 TUV RHEINLAND R 60114696 0001 CE ECOPECSO LINE.....mts

**STANDARDS:** EN 50618 - RoHS 2011/65/UE  
UV-Resistance according to EN60811-501  
Ozone resistant according to EN 60811-403  
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 U<sub>o</sub>/U 1/1 KV; DC 1,8 Kv (conductor-conductor, non earthed system, circuit not under load).

Period of use: 25 years in standard conditions.  
Temperature index: 120 °C based on CEI EN 60216-1 (20.000 hours).

Suitable for cabling in photovoltaic system.  
Suitable for fixed laying inside and outside, unprotective pipes within sight or cashed out, or similar closed system.

Cable not suitable for direct burial.  
Max. storage temperature: + 40 °C. Min. temperature for installation and handling: - 25 °C. The permitted short-circuit-temperature is 250 °C referring to a period of 5 s.



### DIMENSIONAL FEATURES AND ELETTRICAL PROPERTY

n° x mm <sup>2</sup>	Number and nominal cross-sectional area of conductors (n° x mm <sup>2</sup> )	1x4	1x6	1x10
		Ø	Mean overall diameter (mm)	5,6 +0,5-0,2
WEIGHT	Indicative weight of cable(g/m)	60	81	125
CONDUCTOR	Diameter Max. of wires (mm)	0,310	0,310	0,410
	Max resistance Res. El. (ohm/km at 20°C)			
		RedCu	4,950	3,300
	Stn. Cu	5,090	3,390	1,950
INSULATION	Thickness (mm)			
	Mid.	0,7	0,7	0,7
	Min.	0,53	0,53	0,53
SHEATH	Thickness (mm)			
	Mid.	0,8	0,8	0,8
	Min.	0,58	0,58	0,58
CURRENT RATINGS (A)	With ambient temp. lower than:			
	30°C FREE MOVEMENT	-	-	-
	30°C FIXED INSTALLATION	55	70	98
	30°C PIPE LAYING	-	-	-
	20°C EARTH LAYING	-	-	-

ARTICLE CODE

2LHZ201040RO-NE

2LHZ201060RO-NE

2LHZ201100RO-NE