

DESCRIPTION

- Design as per EN 50618.
- Single-core cable.
- Double jacketed.
- Cross-linked LSF-OH materials.
- Suitable to work at extreme ambient temperatures (-40 °C to +90 °C).
- Flame retardant class E_{ca}.
- Life expectancy greater than 25 years.
- Flexible, suitable for fixed and mobile installation, in ground or rooftop systems.
- Easy to handle and install, easy stripability.
- Suitable to common connector types.



E_{ca}



Our Exzhellent® Class Solar cable range is intended for panel interconnection in PV installations and from those to the string boxes or to the inverter, whether it is indoor or outdoor, fixed or mobile (solar trackers), on ground, roof or architectural integration. They may be installed in trays, conduits, walls, equipment, etc. Directly buried installations are not recommended. They comply with European standard EN 50618. Their excellent electrical, mechanical and installation features make them the best choice for your PV installation. As a panel manufacturer, installer, distributor or owner, you expect at least the same service life for your cable than for your panels, no matter where they are installed. In that case your solution is Exzhellent® Class Solar.

APPROVALS

- NF-USE mark to EN 50618.

MATERIALS

- **Conductor:** flexible tinned Cu.
- **Insulation:** cross-linked halogen free compound. Natural colour.
- **Sheath:** cross-linked halogen free compound. Red or black.

CHEMICAL FEATURES

- Weather resistant.
- Resistant to mineral oils.
- Resistant to acids & alkaline.

THERMAL FEATURES

- **Max. cont. conductor temp.:** 90 °C, 120 °C during 20.000 hours (IEC 60216).
Short circuit: 250 °C.
- **Minimum operating temp.:** -40 °C.

ELECTRICAL FEATURES

- **Voltage rating:** 1.5 (1.8) kV DC/ 0.6/1 (1.2) kV AC.
- **Voltage test:** 6.5 kV AC or 15 kV DC during 5 minutes.

MECHANICAL FEATURES

- Resistant to impact, tear and abrasion.
- **Minimum bending radius:** 4 times outer diameter.
- **Maximum traction:** 50 N/mm².

CABLE FOR PHOTOVOLTAIC INSTALLATIONS

RANGE OF PRODUCT

Code General Cable	Cross-section (mm ²)	Approx. Outer diameter (mm)	Current rating* (A)	Minimum bending radius (mm)	Approx. Weight (kg/km)	DC voltage drop ** (V/A-km)	Packaging ***	
							Drum	Reel
1643108	1x4	6,0	64	24	55	14,18	6,000	500
1643109	1x6	6,6	84	27	70	9,445	8,000	500
1643110	1x10	8,0	135	32	96	5,433	8,500	-

All items are available in stock.

* In air, at ambient temperature of 60 °C and maximum conductor temperature of 120 °C (EN 50618).

** At maximum conductor temperature of 120 °C.

*** Other lengths on request. Coils of 100m available on request (4 and 6 mm²).

A COMPLETE RANGE OF CABLES FOR SOLAR PHOTOVOLTAIC SYSTEMS

Renewable energy is enjoying strong growth not only in Europe but worldwide due to continued increases in energy prices and worries associated to global warming. As production costs diminish, users increasingly view these energy sources as clean, cheap and reliable. General Cable, international leader in the cable sector, contributes to this development with a full-range product line for photovoltaic installations (PV), from low-voltage direct current (DC) panel inter-connection cables to medium voltage alternate current (AC) distribution cables and aerial bare conductors.

EXZHELLENT SOLAR

EXZHELLENT SOLAR

class exZhelent SOLAR

H12ZZ2-K 1.5 (1.8) kV DC (EN 50618)

EXZHELLENT 1000 V

ENERGY

class exZhelent

RZ1-K (AS) 0.6/1kV (IEC 60502 -1)
FR N1X1G1 (NF C 32-323), etc.

class energy

RV-K 0.6/1 kV (IEC 60502 -1)
U1000 R2V (XP C 32-321)
FG70R (CEI 20-13), etc.

HERSATENE

VULPREN

class HERSATENE

RHZ1-OL (UNE-HD 620-5E)
NA2XS...Y (VDE 0276-620)
FR-N20XA8E-AR (NF C 33-226)
ARE4H5EX (CEI 20-68), etc.

class VULPREN

HEPRZ1 (UNE-HD 620-9E)