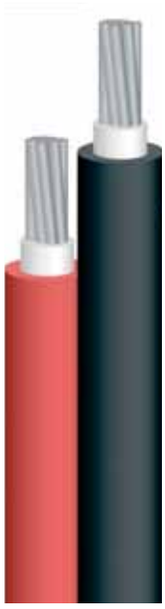
CAVO ELETTRICO PER INSTALLAZIONI FOTOVOLTAICHE
CABLE USE IN PHOTOVOLTAIC INSTALLATIONS I CABLE USE IN PHOTOVOLTAIC INSTALLATIONS



Il cavo elettrico è studiato e progettato per l'impiego in installazioni fotovoltaiche per produzione di energia elettrica. Può essere usato in ambienti interni o esterni, in posa fissa o mobile e anche in canaline e tubazioni.
Soddisfa i requisiti previsti dalla nuova norma CEI 20-91 relativa a cavi con isolamento e guaina elastomerici senza alogeni non propaganti la fiamma, per applicazioni fotovoltaiche. La sigla FG21M21 garantisce il superamento dei test previsti dal nuovo Capitolato Tecnico di Prova IMQ-CPT-065 Edizione 2.

The cable was studied and designed for use in photovoltaic installations for Energy production. It can be used internally or externally, in fixed or mobile positions and also in tubes and ducts.
It fulfils all the requirements of the new rule CEI 20-91 which concerns the cables with halogen free elastomeric insulation and sheath and non- flam propagation, for photovoltaic use. The code FG21M21 assures that cable has got through the tests which are contained in the new Technical Document of Test IMQ-CPT-065 Edition 2.

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Caratteristiche generali
General characteristics I Caracteristiques générales

	Resistenti alla corrosione di agenti chimici e all'abrasione Resistant to corrosion from chemical agents and abrasion Résistant à la corrosion des produits chimiques et à l'abrasion
	Ampio range di temperatura da -40°C a +120°C Wide temperature range -40°C to +120°C Large gamme de température de -40°C à +120°C
	Resistente in caso d'incendio Optimal behaviour in case of fire Résistant en cas d'incendie
	Resistenza a raggi UV e ozono Resistant to UV rays and ozone Résistance aux UV et à l'ozone
	Facilità di montaggio Easy of assembly Facilité de montage
	Compatibilità ambientale - Privo di alogeni Environmental compatibility - Halogen free Respect de l'environnement - Sans halogène

Conductor
Tinned Copper
Cl. 5 - IEC 60228
(DIN VDE 0295) (CEI EN 60228)

Insulation
HEPR 120 °C
(mix type EI8-CEI EN 50363)

Sheath
EVA 120 °C
(mix type EM4 CEI EN 50363)
Insulation and sheath are completly bonded and compatible (two layers of insulation)

Cavi
Cables / Cables

Articolo Item Article	Sezione nominale Nom. cross-section Section nominale	Diametro nominale conduttore Nom. conductor diameter Diam. nom. du conducteur	Diametro esterno nominale Nom. outer diameter Diam. ext. nominale	Peso nominale Nominal weight Poids nominal	Raggio minimo curvatura Min. bending radius Rayon min. courbure	Tensione massima strappo Max. pulling tension Tension traction max.	Portata corrente a 60° C Current capacity at Capacité courant	Prezzo €/mt Price €/mt Prix €/mt
DEDALUS1X4N DEDALUS1X4R	4	2,5 mm	5,9 mm	75 kg/km	23,6 mm	60 mm	55 A	1,74
DEDALUS1X6N DEDALUS1X6R	6	3,0 mm	6,4 mm	125 kg/km	25,6 mm	90 mm	70 A	2,31

Caratteristiche elettriche
Electrical characteristics / Caracteristiques electriques

Tensione nominale Nominal voltage Tension nominal	0,6/1 kV (A. C.)
Massima tensione di esercizio in sistemi ftv Maximum working voltage in photovoltaic system Tension maximale dans les systèmes de FTV	D. C. fino a 2.0 kV
Massima tensione A.C. esercizio Maximum A. C. working voltage Tension maximale courant AC	0,7/1,2 kV
Massima tensione D.C. esercizio Maximum D. C. working voltage Tension maximale courant DC	0,9/1,8 kV
Portata corrente Current capacity Capacité courant	in accordo con DIN VDE 0298 Parte 4 – IEC 60287 according to DIN VDE 0298 Part 4 – IEC 60287 selon DIN VDE 0298 Part 4 – IEC 60287
Test Test Test	According to HD 22.2 - Conductor resistance; voltage test in C. A. e D. C.; dielectric strength; surface resistance: spark test on the insulation; insulation resistance at 20°C; at 90°C in water and at 120°C in air. CEI EN 50305 Part 6 - D. C. stability (10 days, 85°C, salt water, 1,5 kV D. C.)

Caratteristiche termiche
Thermal characteristics / Caracteristiques thermiques

Temperatura ambiente massima di esercizio Maximum ambient working temperature Température ambiant maximale de fonctionnement	-120°C (installazione fissa e mobile) -120°C (fixed and mobile installation) -120°C (sur installation fixe et mobile)
Temperatura minima di esercizio Minimum working temperature Température minimale de service	-40°C (installazione fissa e mobile) -40°C (fixed and mobile installation) -40°C (sur installation fixe et mobile)
Temperatura massima conduttore Maximum conductor temperature Température maximale des conducteurs	+120°C
Temperatura massima corto-circuito Maximum short-circuit temperature Température maximale de court circuit	+250°C (sul conduttore, massimo 5 secondi) +250°C (on conductor, maximum 5 seconds) +250°C (sur conducteur, maximum 5 seconds)
Resistenza bassa temperatura Low temperature resistance Résistance aux basses températures	Test di curvatura a bassa temperatura: in accordo con CEI EN 60811-1-4 Resistenza all'impatto: in conformità a CEI EN 50305 Bending test at low temperature: according to CEI EN 60811-1-4 Impact resistance: conforming to CEI EN 50305 Test de flexion à basse température selon CEI EN 60811-1-4 Résistance aux chocs: selon CEI EN 50305

Connettori
Connectors / Connecteurs

	Articolo Item / Article
	**PV4F+ Connettore Solarlok TYCO solo per moduli** PV4F+ Connector Solarlok TYCO for modules only PV4F+ Connecteur Solarlok TYCO seulement pour modules
	PV4M- Connettore Solarlok TYCO solo per moduli PV4M- Connector Solarlok TYCO for modules only PV4M- Connecteur Solarlok TYCO seulement pour modules
	**MC3+4 Connettore gomma tipo III compatibile multicontact** MC3+4 Connector rubber type III / MC3+4 Connecteur caoutchouc tipe III
	MC3-4 Connettore gomma tipo III compatibile multicontact MC3-4 Connector rubber type III / MC3-4 Connecteur caoutchouc tipe III

	**TL4+ Connettore T-LOCK** TL4+ Connector / TL4+ Connecteur **TL6+ Connettore T-LOCK** TL6+ Connector / TL6+ Connecteur
	TL4- Connettore T-LOCK TL4- Connector / TL4- Connecteur **TL6- Connettore T-LOCK** TL6- Connector / TL6- Connecteur
	**TYF+ Connettore rosso TYCO per moduli e inverter** TYF+ Red connector for modules and inverter TYF+ Connecteur rouge pour modules et onduleurs
	**TYM- Connettore nero TYCO solo per moduli** TYM- Black connector for modules only TYM- Connecteur noir seulement pour modules