

Solar Cable

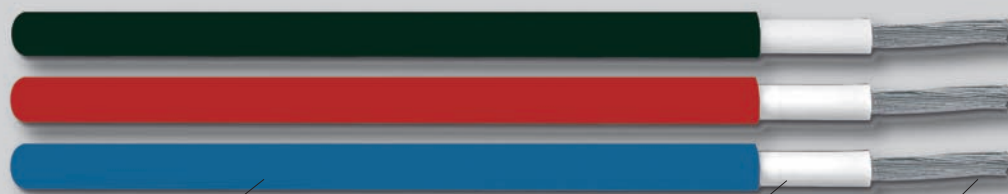


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SOLAR CABLE TINNED COPPER FOR PHOTOVOLTAIC SYSTEMS APPLICATIONS



Outer sheath

Insulation

Conductor

TECHNICAL FEATURES

Conductors:	fine wires stranded of tinned copper Cl. 5	CEI EN 60228
Insulation:	atoxic crosslinked elastomer	2Pfg 1169/08.2007
Outer sheath:	atoxic crosslinked elastomer	2Pfg 1169/08.2007
Sheath colour code:	black RAL 9005 - red RAL 3013 - blue RAL 5015	
Flame retardant:		CEI EN 60332-1-2
Halogen free:	(<0,5 mg/g - 0,5%)	CEI EN 50267-2-1/2 - IEC 60754-1/2
Reduced toxic gases emission:	(toxicity index <2%)	CEI 20-37/4-0
Reduced smoke emission:	(transmittance >60%)	CEI EN 61034-2
UV resistant:		HD 605
Ozone resistant:		CEI EN 50396
Long-time behavior	(20000 h a 120 °C)	CEI EN 60216
Life expectancy:	25 years	
Electric resistance:	according to	CEI EN 60228
Current capability:		CEI 20-21 - IEC 60287
Rated voltage Uo/U:	0,6/1 kVac 0,9/1,5 kVdc	
Max voltage:	1,2 kVac 1,8 kVdc	
Testing voltage:	6,5 kVac 15 kVdc	
Max working temperature:	90 °C	
Short circuit temperature:	250 °C	
Min installation temperature:	-25 °C	
Bending radius:	Ø x 6	
Outer printing:	BERICA CAVI S.P.A ITALY PV CABLE FG21M21 IEMMEQU & TÜV TYPE APPROVED PV1-F ROHS CE year/lot 1x... mm ²	

TÜV



n. R60026118
(black and red)
n. R60026118 0002
(blue)

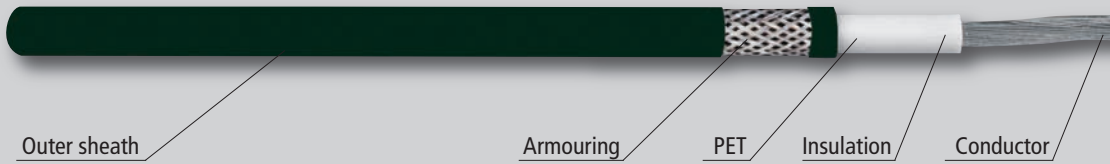


FG21M21

TYPE * n° x mm ²	MEDIUM OUTER Ø mm	MEDIUM WEIGHT kg x km
1x2,5	5,1	44
1x4	5,7	58
1x6	6,5	81
1x10	7,9	137
1x16	9,2	203
1x25	11	302
1x35	12	389
1x50	14,3	550
1x70	16	732
1x95	18,1	1028
1x120	20,7	1286
1x150	22,8	1610
1x185	26	1832
1x240	27	2533

(*) BLACK, RED AND BLUE

SOLAR CABLE ARMoured TINNED COPPER FOR PHOTOVOLTAIC SYSTEMS APPLICATIONS



TECHNICAL FEATURES		
Conductors:	fine wires stranded of tinned copper Cl. 5	CEI EN 60228
Insulation:	atoxic crosslinked elastomer	
Assembling:	polyester-mylar tape	
Armouring:	galvanized steel wires braid	
Outer sheath:	atoxic crosslinked elastomer	
Sheath colour code:	black RAL 9005	
Flame retardant:		CEI EN 60332-1-2
Halogen free:	(< 0,5 mg/g - 0,5 %)	CEI EN 50267-2-1/2 - IEC 60754-1/2
Low emission toxic gas:	(toxicity index < 2 %)	CEI 20-37/4-0
Low smoke:	(transmittance > 60 %)	CEI EN 61034-2
UV resistant:		HD 605
Ozone resistant:		CEI EN 50396
Long-term behavior:	(20000 h at 120 °C)	CEI EN 60216
Current capability:		CEI 20-21 - IEC 60287
DC resistance:	according to	CEI EN 60228
Rated voltage:	0,6/1 kVac 0,9/1,5 kVdc	
Max voltage :	1,2 kVac 1,8 kVdc	
Test Voltage:	6,5 kVac 15 kVdc	
Max operating temperature:	90 °C	
Short circuit temperature:	250 °C	
Min. installation temperature:	-25 °C	
Min. bending radius:	Ø x 14	
Outer printing:	BERICA CAVI S.P.A. ITALY SOLAR CABLE ARMoured 1500 Vcc PV1-F IEC 60332-1-2 CE Section Year/Lot - Prog. Metric	

TYPE n° x mm ²	MEDIUM OUTER Ø mm	MEDIUM WEIGHT kg x km
1x1 BLACK	6,6	62,0
1x1,5 BLACK	7,1	74,0
1x2,5 BLACK	7,6	91,0
1x4 BLACK	8,4	116,0
1x6 BLACK	9,1	144,0
1x10 BLACK	10,5	207,0
1x16 BLACK	11,9	283,0
1x25 BLACK	13,2	381,0
1x35 BLACK	14,6	490,0
1x50 BLACK	16,6	672,0
1x70 BLACK	18,7	854,0
1x95 BLACK	21,3	1112,0
1x120 BLACK	23,9	1395,0
1x150 BLACK	25,7	1688,0
1x185 BLACK	28,4	2002,0
1x240 BLACK	29,6	2626,0

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 60026118

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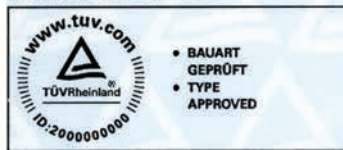
Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>	<i>(day/mo/yr)</i>
	0001-gl- 28101954 002	31.07.2009	

Genehmigungsinhaber *License Holder*
Berica Cavi S.p.A.
Via della Meccanica 2
36040 Meledo di Sarego VI
Italia

Fertigungsstätte *Manufacturing Plant*
Berica Cavi S.p.A.
Via della Meccanica 2
36040 Meledo di Sarego VI
Italia

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*
2 Pfg 1169/08.07



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

PV-Cables

Identification : Berica Cavi SpA (VI) - Solar Cable

Code designation : PV1-F

Rated diameter :

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1x2,5mm²; 1x4,0mm²; 1x6,0mm²; 1x10,0mm²; 1x16,0mm²;
1x25,0mm²; 1x35,00mm²; 1x50,0mm²; 1x70,0mm²; 1x95,0mm²
1x120,0mm²; 1x150,0mm²; 1x185,0mm²; 1x240,0mm²

Rated voltage : AC U₀/U 0,6/1kV; DC 1,8kV
(conductor-conductor, non earthed system, circuit not under load)

Ambient temperature : -40°C to +90°C

Max. core temperature : +120°C (for 20.000h)

Material of insulation : crosslinked special compound

Material of sheath : crosslinked special compound

Color of sheath : black ; red

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Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

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Zertifizierungsstelle



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