

Single Core Photo Volatic Armoured Wires, Crosslinked Elastomer Insulated and Sheathed



**C5938, C5939, C5940, C5941, C5942, C5943, C5944, C5945, C5946, C5947, C5948, C5949,
C5950, C5951, C5952, C5953**

Applications

Suitable for the interconnection of the components of PV systems are characterized by: optimum mechanical properties in a range of operating temperature - 40 to + 90 ° C, high abrasion resistance, tear, UV, ozone, water, flame propagation, low smoke, halogen-free, weather resistance that allows a period equal to the life of the PV system. Moreover, they provide adequate protection against rodents and termites.

Design

Unit	Properties
Conductor	Flexible Tinned Copper wire Class 5
Insulation	Crosslinked non-toxic elastomer
Assembling	PET Tape
Armour	Braid of Galvanized Steel
Sheath Material	Crosslinked non-toxic elastomer Standard Colour: Black RAL 9005
Standard Put Up Length	305 metres

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

Physical Characteristics

Part Number	C5938	C5939	C5940	C5941	C5942	C5943	C5944	C5945
Conductor Size (mm ²)	1.0	1.5	2.5	4.0	6.0	10.0	16.0	25.0
Nom. Overall Diameter (mm)	6.6	7.1	7.6	8.4	8.9	10.5	11.9	13.2
Nominal Cable Weight (kg/km)	62	74	91	116	144	207	283	381
Min. Bend Radius (install) (mm)	14 × OD							
Operating temperature (°C)	-40 to 90							
Short Circuit temperature (°C)	250							
Min. Installation Temperature (°C)	-25							

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Part Number	C5946	C5947	C5948	C5949	C5950	C5951	C5952	C5953
Conductor Size (mm ²)	35.0	50.0	70.0	95.0	120.0	150.0	185.0	240.0
Nom. Overall Diameter (mm)	14.6	16.6	18.7	21.3	23.9	25.7	28.4	29.6
Nominal Cable Weight (kg/km)	490	672	854	1112	1395	1688	2002	2626
Min. Bend Radius (install) (mm)	14 × OD							
Operating temperature(°C)	-40 to 90							
Short Circuit temperature(°C)	250							
Min. Installation Temperature (°C)	-25							

Electrical Characteristics

Rated Voltage U0/U	Max. Voltage	Testing Voltage
0.6/1 KVac 0.9/1.5 KVdc	1.2 KVac 1.8 KVdc	6.5KVac 15KVdc

Reference Standards

IEC 60228 Class 5	EN 60216
EN 50267-2-1/2	CEI 20-21 IEC 60287
IEC 60754-1/2	EN 50396
IEC 61034-2	CEI 20-37/4-0
IEC 60332-1-2	HD 605
RoHS directives	