

SOLAR CABLES

Introduction

Our Solar cables are designed for connecting photovoltaic power supply systems. They are dedicated to the photovoltaic system direct current (D.C.) side with a nominal D.C. vo_ltage of a 1.5kV. These cables can be used indoor & outdoor for flexible

and fixed installations with high mechanical strength in extreme weather conditions. cables are designed to withstand the demanding environmental conditions that arise in any fixed, mobile, roof or architecturally integrated photovoltaic installation.

Applications

These cables are suitable for permanent outdoor long-term use, under variable and harsh climate conditions. They are designed and tested to operate at a normal maximum conductor temperature of 90°C and for 20,000 hours up to 120°C. Therefore, the expected period use is 30 years under normal usage conditions.

Standards

International : 2 Pfg 1169/08.2007 OR EN 50618

Design

Conductor – Flexible Electrolytic Tinned fine copper strands, acc. To IEC 60228, class 5

Insulation – Crosslinked Halogen Free & Flame Retardant Insulation, Colour: White, Red Or Black) Outer Sheath – Crosslinked Halogen Free & Flame Retardant UV and ozone resistant Sheath in Black Or Black with Red Stri







Product & Ratings Conductor Approx Cable Current Carrying Capacity @ Amb. 20 Deg.C Weight Resistance No. cores x Cross-Outer Dia sec mm² approx.mm Twin cables Single Cable in Single Cable On (Max) Ω / km at touching, on a Kg/Km Surface (Amps) 20°C Air (Amps) surface (Amps) 2 Pfg 1169/08.2007 - PV-F 1 1.5 4 30 29 24 13.3 29 x 4.4 41 39 7.98 40 1 х 2.5 33 1 4 5.2 55 52 44 5.09 54 х 6 5.6 70 67 57 3.39 74 1 х 1 10 8.1 98 93 79 1.95 117 x 1 16 10.0 132 125 107 1.24 173 х BS EN 50618 - H1Z2Z2-K 1.5 45 30 29 24 13.3 35 1 х 2.5 5.2 41 39 33 7.98 39 1 x 1 4 5.5 55 52 44 5.09 60 х 5.8 3.39 1 x 6 70 67 57 80 8.2 98 93 79 1.95 125 1 10 х 1 х 16 10.2 132 125 107 1.24 189 25 11.2 176 167 142 0.795 295 1 х 12.4 218 207 176 0.565 402 1 х 35 50 14.8 280 262 221 1 0.393 567 х

** Higher sizes are also available upon request

