SOLAR PV DC SINGLE CORE · ANTI TERMITE · H1Z2Z2-K · 1500 V DC

INDOCABLES SOLAR H1Z2Z2-K ANTI TERMITE

PHOTOVOLTAIC POWER CABLE, HALOGEN FREE, FLAME RETARDANT — BS EN 50618

INDO CABLES ITEM CODE

IC-SO-01-«SIZE»-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR

Size field = sq.mm × 100
Per-size item codes in the ordering table

DERIVED — NOT YET IN REGISTER

The Product Code Master holds the single-core solar items IC1006336–IC1006350 with option UV only — no anti-termite variant. These codes are derived from the register's own code structure using option block ATR. Item IDs and ACTIVE status must be issued by the code steward before quoting or sale.

APPLICATION

INDOCABLES low smoke, halogen free, flexible single core cable with electron beam cross linked insulation and sheath is designed to use for Photovoltaic installation at the Direct current side. These cables are suitable for permanent outdoor use under variable climatic condition.

Figure 2 — Core identification: black & black with red strip.

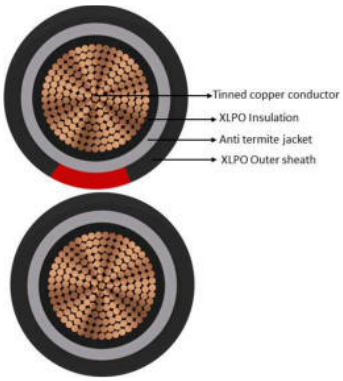

Figure 1 — Cross section: tinned copper conductor, XLPO insulation, anti termite jacket, XLPO outer sheath.

Images not to scale. Follow table for dimensions

CHARACTERISTICS

CONSTRUCTION

INDO CABLES
EVERY CONNECTION MATTERS

PRODUCT DATASHEET
H1Z2Z2-K · BS EN 50618

RC-07
SHEET NO.

SOLAR PV DC SINGLE CORE · ANTI TERMITE · H1Z2Z2-K · 1500 V DC

VOLTAGE RATING
Nominal Voltage: 1500 V DC between conductors as well as conductor and earth. Max permitted voltage: 1800 V

OPERATION TEMPERATURE
Fixed: -40 °C to +120 °C
Maximum conductor temperature: +120 °C

BENDING RADIUS
For fixed installation > 15 D. For occasional moved > 25 D

CONDUCTOR
Tinned copper conductor as per IEC 60228, class 5.

INSULATION
E-Beam cross linked halogen free and flame-retardant compound (XLPO), Colour: Black

ANTI TERMITE JACKET
Polyamide (Nylon), Colour: Black

SHEATH
E-Beam cross linked halogen free and flame-retardant compound (XLPO)

CORE IDENTIFICATION
Black & Black with red Strip

OUTSTANDING FEATURES

Halogen free

Electron beam cross-linked

Flame retardant

High life

Flexibility

UV, ozone resistant

Hydrolysis resistant

High temperature resistant

Termite resistant

STANDARD FOLLOWS

IEC 60228 · EN 50618 · IEC 60332-1-2 · UL 4703 · IEC 62930

COMPLIANCE

Fire Performance	EN 60332-1
Smoke Emission	IEC 61034 / EN 50268-2
Halogen free material	EN 50267-2-1 / IEC 60754-2
Toxicity	EN 50305
Resistance to ozone	EN 50396
Weathering / UV	HD 605/A1 or DIN 53667
Life Expectancy	IEC 60216

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WEIGHT, DIMENSION & ELECTRICAL DATA

SINGLE CORE CROSS SECTIONAL AREA mm²	NOMINAL INSULATION THICKNESS mm	NYLON JACKET THICKNESS mm	NOMINAL SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	WEIGHT (APPROX.) Kg/Km	MAX. DC RESISTANCE AT 20 °C Ω/km	CURRENT RATING CAPACITY Amp.		
							Single cable free in air	Single loaded cable on a surface	Two cables touching on a surface
2.5	0.7	0.2	0.8	6.2	63	8.21	41	39	33
4.0	0.7	0.2	0.8	6.8	77	5.09	55	52	44
6.0	0.7	0.2	0.8	7.4	99	3.39	70	67	57
10	0.7	0.2	0.8	8.3	142	1.95	98	93	79
16	0.7	0.2	0.9	9.6	208	1.24	132	125	107
25	0.9	0.2	1.0	11.4	314	0.795	176	167	142
35	0.9	0.2	1.1	12.8	418	0.565	218	207	176
50	1.0	0.2	1.1	14.8	576	0.393	276	262	221
70	1.1	0.2	1.2	16.6	782	0.277	347	330	278
95	1.1	0.2	1.3	18.7	1005	0.21	416	395	333
120	1.2	0.4	1.3	21.1	1281	0.164	488	464	390
150	1.4	0.4	1.4	23.1	1585	0.132	566	538	453
185	1.6	0.4	1.6	25.7	1940	0.108	644	612	515
240	1.7	0.4	1.7	28.6	2522	0.0817	775	736	620

DE-RATING FACTOR

Current Ratings are based on EN 50618 at Max. Conductor Temperature 120 °C and Ambient Air temperature 60 °C. Current rating de-rating factors other than 60 °C ambient temperature.

AMBIENT AIR TEMPERATURE °C	up to 60	70	80	90
DE-RATING FACTOR	1.00	0.92	0.84	0.75

ORDERING — INDO CABLES PRODUCT CODES

INDO CABLES

+91 80 3533 3289

+91 80 3831 0785

+91 70110 05815

EVERY CONNECTION MATTERS

PRODUCT DATASHEET

H1Z2Z2-K · BS EN 50618

RC-07
SHEET NO.

SOLAR PV DC SINGLE CORE · ANTI TERMITE · H1Z2Z2-K · 1500 V DC

Single core, tinned copper, XLPO insulated, polyamide anti-termite jacketed and XLPO sheathed, 1.5 kV DC, to EN 50618, UV resistant. Codes below are derived from the register's code structure — line SO, cores 01, option 1 UV, option 2 ATR (anti termite and anti rodent sheath).

SIZE MM²	DERIVED ITEM CODE	NEAREST REGISTERED ITEM
1 × 2.5	IC-SO-01-00250-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006337 · no ATR
1 × 4.0	IC-SO-01-00400-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006338 · no ATR
1 × 6.0	IC-SO-01-00600-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006339 · no ATR
1 × 10	IC-SO-01-01000-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006340 · no ATR
1 × 16	IC-SO-01-01600-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006341 · no ATR
1 × 25	IC-SO-01-02500-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006342 · no ATR
1 × 35	IC-SO-01-03500-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006343 · no ATR
1 × 50	IC-SO-01-05000-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006344 · no ATR
1 × 70	IC-SO-01-07000-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006345 · no ATR
1 × 95	IC-SO-01-09500-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006346 · no ATR
1 × 120	IC-SO-01-12000-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006347 · no ATR
1 × 150	IC-SO-01-15000-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006348 · no ATR
1 × 185	IC-SO-01-18500-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006349 · no ATR
1 × 240	IC-SO-01-24000-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006350 · no ATR

No item IDs are shown because none of these fourteen items exists in the Product Code Master yet. The register's next free ID for this item class is IC1006462. EN 50618 is not an IS standard, so no BIS CM/L number applies to these items.

CERTIFICATIONS & COMPLIANCE

ISO 9001
Cert. 99 100 22646 (TÜV SÜD)

ISI
Bureau of Indian Standards

RoHS
Compliant

REACH
Compliant

Make in India
Manufactured in India

INDO CABLES

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