SOLAR PV DC TWIN CABLE · ANTI TERMITE · H1Z2Z2-K · 1500 V DC

INDOCABLES SOLAR H1Z2Z2-K TWIN ANTI TERMITE

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

INDO CABLES ITEM CODE

IC-SO-02-«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 2-core solar items without an anti-termite option. 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 two single cores 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: (+ve) red, (−ve) black.

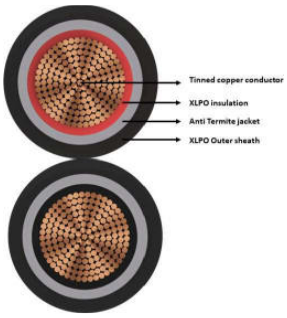

Figure 1 — Cross section: tinned copper conductor, XLPO insulation, anti termite jacket, XLPO outer sheath.

Images not to scale. Follow table for dimensions

CHARACTERISTICS

CONSTRUCTION

INDO CABLES
EVERY CONNECTION MATTERS

PRODUCT DATASHEET
H1Z2Z2-K · BS EN 50618

RC-02
SHEET NO.

SOLAR PV DC TWIN CABLE · 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

TEST VOLTAGE
6.5 kV AC 50 Hz

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

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

ANTI TERMITE JACKET
Polyamide (Nylon) Sacrificial Layer, Colour: Black

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

CORE IDENTIFICATION
(+ve) Red, (–ve) Black

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

INDO CABLES
+91 80 3533 3289
+91 80 3831 0785
+91 70 1100 5815

SOLAR PV DC TWIN CABLE · ANTI TERMITE · H1Z2Z2-K · 1500 V DC

WEIGHT, DIMENSION & ELECTRICAL DATA

CORE CROSS SECTIONAL AREA mm²	NOMINAL INSULATION THICKNESS mm	NYLON JACKET THICKNESS mm	NOMINAL SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	MAX. DC RESISTANCE AT 20 °C Ω/km	WEIGHT (APPROX.) Kg/Km	CURRENT RATING CAPACITY Amp.		
							Single cable free in air	Single loaded cable on a surface	Two cables touching on a surface
2 × 2.5	0.7	0.2	0.8	6.2 × 12.4	8.21	126	41	39	33
2 × 4.0	0.7	0.2	0.8	6.8 × 13.6	5.09	153	55	52	44
2 × 6.0	0.7	0.2	0.8	7.4 × 14.8	3.39	197	70	67	57
2 × 10	0.7	0.2	0.8	8.3 × 16.6	1.95	283	98	93	79
2 × 16	0.7	0.2	0.8	9.6 × 19.2	1.24	416	132	125	107

Values are reproduced from the source sheet in their original sequence. In the source, the last two data columns carry the headings "Weight (Approx.) Kg/Km" and "Max. DC Resistance at 20 °C Ω/km" in the reverse order to their values; the headings are shown here against the value each belongs to. Flagged for confirmation.

DE-RATING FACTOR

Current Ratings are based on EN 50618 at Max. Conductor Temperature 120 °C and Ambient Air temperature 60 °C.

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

Two 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 02, option 1 UV, option 2 ATR (anti termite and anti rodent sheath).

SIZE MM²	DERIVED ITEM CODE	NEAREST REGISTERED ITEM
2 × 2.5	IC-SO-02-00250-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006352 · no ATR
2 × 4.0	IC-SO-02-00400-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006353 · no ATR
2 × 6.0	IC-SO-02-00600-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006354 · no ATR
2 × 10	IC-SO-02-01000-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006355 · no ATR
2 × 16	IC-SO-02-01600-TC-E2X-H1Z2Z2K-1500-EN50618-UV-ATR	IC1006356 · no ATR

SOLAR PV DC TWIN CABLE · ANTI TERMITE · H1Z2Z2-K · 1500 V DC

No item IDs are shown because none of these five 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

+91 80 3533 3289

+91 8088 10 785

+91 70110 05815