H1Z2Z2-K

-40°C to +90°C, 1000/1500V



Construction
Conductor: Flexible Tinned Copper · Class 5 (EN 60228 / IEC 60228)
Insulation: Extruded · Halogen-Free XLPO
Jacket: Extruded · Flame-Retardant XLPO
Outer Sheath Colour: Black or Red (other colours available on request)

Thermal Characteristics
Operating Temperature: -40°C to +90°C
Max. Conductor Temperature: +120°C (max. 20,000h at 50% residual elongation per EN 50618)
Min. Installation & Short-Circuit Temp.: -25°C min. installation · +250°C max. short-circuit (5 s)

Electrical Characteristics
Operating Voltage: 1000/1500V
Test Voltage: 6500V / 5 min (AC Voltage Test (50Hz, 5 min water bath) per EN 50618)
Max. Permitted DC Voltage: 1800V DC (conductor-conductor, non-earthed system, circuit not under load)

Application
PV Module & String Interconnections: For stationary or freely suspended indoor and outdoor cabling between solar modules and between module strings and DC/AC inverters per HD 60364-7-712 and EN 50618.
Conduit, Duct & Class II Installations: Suitable for installation inside electrical pipes, ducts, channels, under plaster, and within Class II double-insulated appliances and PV systems up to 1800 V DC to ground.

General Characteristics
UV, Ozone & Weather Resistance: Cross-linked sheath stands up to UV radiation, ozone, and long-term outdoor weathering.
Moisture & Water Resistance: Engineered for permanent outdoor exposure and wet service environments (AD8).
Flexible Routing: Fine-stranded tinned copper conductor bends easily through solar module arrays and inverter enclosures.

Standards & Approvals
EN 50618: Electric cables for photovoltaic systems (H1Z2Z2-K), TÜV Rheinland certified.
HD 60364-7-712: Solar photovoltaic (PV) power supply systems installation wiring.
Halogen-Free: EN 50525-1 Annex B / IEC 60754-1 & IEC 60754-2
Low Smoke: EN 61034-2 / IEC 61034-2

Fire Performance
Fire Retardant: IEC 60332-1-2

CASMO Part No.	Conductor Size (mm²)	Nom. Ins. Thickness (mm)	Cable		Max. DCR @20°C (Ω/km)	Ampacity @60°C			Nom. Cable Weight (kg/km)
			Nom. Jkt. Thickness (mm)	Nom. O.D. (mm)		Single Cable In Air (A)	Single Cable On Surface (A)	Two Cables Adjacent On Surface (A)	
820011.5-XX	1.5	0.7	0.8	4.6	13.7	30	29	24	36
820012.5-XX	2.5	0.7	0.8	5.0	8.21	41	39	33	46
820014-XX	4	0.7	0.8	5.6	5.09	55	52	44	62
820016-XX	6	0.7	0.8	6.1	3.39	70	67	57	82
8200110-XX	10	0.7	0.8	7.1	1.95	98	93	79	125
8200116-XX	16	0.7	0.9	8.5	1.24	132	125	107	190
8200125-XX	25	0.9	1.0	10.4	0.795	176	167	142	285
8200135-XX	35	0.9	1.1	11.5	0.565	218	207	176	385

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8200150-XX	50	1.0	1.2	13.7	0.393	276	262	221	540
8200170-XX	70	1.1	1.2	15.8	0.277	347	330	278	740
8200195-XX	95	1.1	1.3	17.3	0.210	416	395	333	965
82001120-XX	120	1.2	1.3	19.1	0.164	488	464	390	1210
82001150-XX	150	1.4	1.4	21.4	0.132	566	538	453	1495
82001185-XX	185	1.6	1.6	24.9	0.108	644	612	515	1885
82001240-XX	240	1.7	1.7	27.3	0.082	775	736	620	2395

Table Notes

1. Current carrying capacity (ampacity) values per EN 50618 Annex A (Table A.3) at 60°C ambient temperature and 120°C max. conductor operating temperature.

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