

CASUSTAN™ PV

H1Z2Z2-K
-40°C to +90°C



Construction

Type: double insulation cable
Core: flexible tin-plated copper BS EN 60228
Insulation: cross-linked halogen-free compound
Sheath: cross-linked LSZH compound

Production

Range width: 1.5 to 240 mm² (other cross sections or constructions on request)
Options: Please consult us for any special requirements

Application

General use: ideal for use in Photovoltaic (PV) Systems, in particular for installation at the Direct Current (DC.) side. These cables are suitable for permanent outdoor use for many years under variable demanding climate conditions. Relatively stringent requirements are set for these products in line with the expected harsh usage conditions.

General characteristics

Weather conditions: excellent UV and ozone resistant
Resistance to water: permanent immersion AD8
Mechanical behavior: shock resistance according to standard (Impact-Resistance Test) and crush resistance according to standard UL 854.24 (Crushing-Resistance Tests)
Others: maximum current rating as per EN 50618

Thermal characteristics

Continuous operating temperature: -40°C to +90°C

Electrical characteristics

Operating Voltage: 1.0 / 1.0 kV A.C, 1.5 / 1.5 kV D.C.
Test voltage: 6.5 kV A.C. – 15 kV D.C.

Approvals – Standards

Flame retardant : IEC 60332-1-2 / EN 60332-1-2
Halogen free : IEC 60754-1 / EN 60754-1
Low toxicity: IEC 60754-2 / EN 60754-2
Low smoke: IEC 61034-2 / EN 61034-2

CASMO Part- No.	No. Conductors x cross-sec. mm ²	Nominal Outer Diameter		Weight		Max. Electrical Resistance		Current Carrying Capacity		
		(mm)	(in)	(kg/km)	(lbs/kft)	ohm/ km @ 20°C	ohm/ km @ 90°C	Single Cable In Air	Single Cable On Surface	Two Cables Adjacent on Surface
								(Amps)	(Amps)	(Amps)
8200101	1 x 1.5	4.6	0.181	36	22	13.70	17.47	30	29	24
8200102	1 x 2.5	5	0.197	46	29	8.21	10.47	41	39	33
8200103	1 x 4	5.6	0.220	62	38	5.09	6.49	55	52	44
8200104	1 x 6	6.1	0.240	82	51	3.39	4.32	70	67	57
8200105	1 x 10	7.1	0.280	125	78	1.95	2.49	98	93	79
8200106	1 x 16	8.5	0.335	190	118	1.24	1.58	132	125	107
8200107	1 x 25	10.4	0.409	285	177	0.795	1.01	176	167	142
8200108	1 x 35	11.5	0.453	385	239	0.565	0.72	218	207	176
8200109	1 x 50	13.7	0.539	540	335	0.393	0.50	276	262	221
8200110	1 x 70	15.8	0.622	740	459	0.277	0.35	347	330	278
8200111	1 x 95	17.3	0.681	965	598	0.210	0.27	416	395	333
8200112	1 x 120	19.1	0.752	1210	750	0.164	0.21	488	464	390
8200113	1 x 150	21.4	0.843	1495	927	0.132	0.17	566	538	453
8200114	1 x 185	24.9	0.980	1885	1169	0.108	0.14	644	612	515
8200115	1 x 240	27.3	1.075	2395	1485	0.0817	0.10	775	736	620

DE-RATING FACTORS

AIR TEMPERATURE	UP TO 60°C	70°C	80°C	90°C	100°C	110°C
DE-RATING FACTOR	1.00	0.91	0.82	0.71	0.58	0.41

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