



Code: H1Z2Z2-K

Standards: EN 50618, TS EN 50618

Technical Data		Electrical Properties	
Operating temperature	: -40 °C to +90 °C	Nominal voltage	: DC: 1.5/1.5 kV AC: 1.0/1.0 kV
Max storage temperature	: +40 °C	Max. AC	
Min. temperature for installation and handling	: -25 °C	Operating Voltage	: 1.2/1.2 kV
(20 ± 10) °C' ta Min. bending radius D<12	: 3 x D	Max. DC	
(20 ± 10) °C' ta Min. bending radius D>12	: 4 x D	Operating Voltage	: 1.8/1.8 kV
D	: Cable diameter		

### Construction

1. Flexible tinned copper conductor / Class 5 (EN 60228, IEC 60228, DIN VDE 0295)
2. Halogen-free and cross-linked insulating material EN 50618, TS EN 50618
3. Halogen-free, flame retardant and cross-linked sheath material EN 50618, TS EN 50618

### Fire Performance Tests

Vertical Flame Propagation / EN 60332-1-2, IEC 60332-1-2, DIN EN 60332-1-2 (VDE 0482-332-1-2)  
 Smoke Emission Test ( Light Transmittance) / EN 61034-2, IEC 61034-2, DIN EN 61034-2, VDE 0482-1034-2,  
 Assessment of halogen for all non-metallic materials EN 50525-1, EN 60754-2, EN 50267-2-1

### Resistance to Different Environmental Conditions

Weathering / UV Resistance on sheath / EN 50289-4-17, VDE 0819-289-4-17  
 Ozone Resistance Test / EN 60811-403, VDE 0473-811-403  
 Sheaths resistance against acid and alkaline solution / EN 60811-404, VDE 0473-811-404  
 Dynamic Penetration Test / TS EN 50618

### Applications

They are designed for connections between various system elements such as solar panels and inverters in photovoltaic applications.

MECHANICAL AND ELECTRICAL PROPERTIES						
Nominal Cross Section	Conductor Resistance at 20°C	Net Weight (Approx)	Overall Diameter (approx)	Current Carrying Capacity in Air (60°C)	Current Carrying Capacity on Surface (60°C)	Short Circuit Current (1s/250°C)
mm <sup>2</sup>	ohm/km	kg/km	mm	A	A	kA
1x1,5	13,7	29,8	4,6	30	29	0,2
1x2,5	8,21	40,7	5,1	41	39	0,4
1x4	5,09	56,4	5,6	55	52	0,6
1x6	3,39	76,8	6,2	70	67	0,9
1x10	1,95	121,0	7,6	98	93	1,4
1x16	1,24	179,5	9,1	132	125	2,3
1x25	0,795	275,8	11,1	176	167	3,6
1x35	0,565	378,1	12,7	218	207	5,0
1x50	0,393	531,3	14,8	276	262	7,2
1x70	0,277	728,1	16,9	347	330	10,0
1x95	0,21	942,2	19,1	416	395	13,6
1x120	0,164	1197,7	21,1	488	464	17,2
1x150	0,132	1508,4	23,6	566	538	21,5
1x185	0,108	1797,0	26,4	644	612	26,5
1x240	0,0817	2377,6	29,5	775	736	34,3