Conductor:
Material E-Cu tinned, DIN EN 60228 Class 5

Insulation Core
Material Crosslinked Polyolefin

Insulation Jacket
Material Crosslinked Spezial Polyolefin

Manufacturer`s identification
EN 50618 H1Z2Z2-K 62930 IEC 131 HALOGEN FREE LOW SMOKE R-60147048

Requirements & Examinations EN 50618:2014; IEC 62930:2017
Temperature range - 40 °C to + 90 °C (for fixed and flexible installation)
max. Temperature at conductor + 120 °C (20.000 h, 50 % residual elongation)
Rated voltage $U_{0/U}$ AC 1,0 / 1,0 kV DC 1,5 / 1,5 kV
Resistance weather-resistant and UV-resistance

Other properties
Direct Burial Internal test according to UL 854
(Impact-Resistance test and Crushing - Resistance test)
Installation instructions: DIN VDE 50174-1; § 5.2.4 and DIN VDE 0891 Part 6 § 4.2
max. permissible operating voltage AC 1,2 / 1,2 kV
max. permissible operating voltage DC 1,8 / 1,8 kV
max. PV system voltage up to 2,0 kV DC possible
Long-term insulation resistance in water 90 °C; 12 Weeks; 2000 V DC > 3 GΩ.m
(following to UL 44)

		4 mm2	6 mm2	10 mm2	16 mm2
Conductor	Construction	56 x 0,31 mm max.	80 x 0,31 mm max.	80 x 0,41 mm max.	120 x 0,41 mm max.
	diameter	3,00 mm max.	3,90 mm max.	5,10 mm max.	6,30 mm max.
	Resistance	5,09 mΩ/m max.	3,39 mΩ/m max.	1,95 mΩ/m max.	1,24 mΩ/m max.
Insulation core	Minimal Thickness	0,53 mm min.	0,53 mm min.	0,53 mm min.	0,53 mm min.
Insulation jacket	Minimal Thickness	0,58 mm min.	0,58 mm min.	0,58 mm min.	0,67 mm min.
	Outer diameter	5,50 ± 0,2 mm	6,00 ± 0,2 mm	7,10 ± 0,2 mm	8,10 ± 0,2 mm
Cable weight		ca. 56 g/m	ca. 75 g/m	ca. 115 g/m	ca. 170 g/m