KUKA CABLE Solar
EXPERT IN SOLAR POWER TRANSMISSION

H07RN-F

Cu·EPR·PCP / 450·75ov

01 | APPLICATION:

Used for portable power supplies, site equipment,industrial machinery, and audio visual equipment.High flexibility and have the capacity to withstand weather, oil/grease, mechanical and thermal stresses.

02 | CONSTRUCTION:

Conductor: Class 5 flexible copper conductor/ IEC 60228
Insulation: EPR (Ethylene Propylene Rubber)
Sheath: PCP (Polychloroprene)

Sheath Colour: ● Black

Insulation core color:
1 core: ● Black
2 core: ● Brown ● Blue
3 core: ● Brown ● Blue ● G/Y
4 core: ● Black ● Brown ● Grey ● G/Y
5 core: ● Black ● Brown ● Grey ● Blue ● G/Y

03 | CHARACTERISTICS:

Rated voltage Uo/U: 450/750V
Test Voltage: 3kV

Water Resistant: AD7
Flame-resistant test: acc. to EN 60332-1-2

Bending radius flexed: 6 x outer O
Temperature range: -30℃ to +60c
Can be supplied up to 90℃

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DIMENSIONS

Nom.Cross Section Area	Insulation thickness	Nom. overall diameter	Nom. weight
N x mm²	mm	mm	kg/km
1×1.5	0.8	5.8	52
1x 2.5	0.9	6.5	67
1x 4	1.0	7.4	92
1 x 6	1.0	8.1	119
1 x 10	1.2	9.8	185
1 x 16	1.2	11.3	258
1x 25	1.4	13.3	375
1 x 35	1.4	14.6	485
1 x 50	1.6	17.2	669
1 x 70	1.6	19.3	892
1x 95	1.8	22.2	1160
1x 120	1.8	24.3	1436
1x 150	2.0	25.9	1748
1x 185	2.2	29.7	2142
1 x 240	24	31.5	2698
1x 300	2.6	36.5	3348
1 x 400	2.8	40.4	4293
1 x 500	3.0	49.6	5269
1 x 630	3.0	47.2	6790

Nom.Cross Section Area	Insulation thickness	Nom. overall diameter	Nom. weight
N x mm²	mm	mm	kg/km
2x 1.5	0.8	9.0	120
2x 2.5	0.9	10.7	173
2x4	1.0	12.3	239
2x 6	1.0	13.8	313
2x 10	1.2	18.6	563
2x 16	1.2	21.7	830
2 x 25	1.4	25.8	1211
3G 1	0.8	8.74	117
3G 1.5	0.8	9.68	147
3G 2.5	0.9	11.4	123
3G 4	1.0	13.2	297
3G 6	1.0	14.7	390
3G 10	1.2	19.9	705
3G 16	1.2	23.3	1031
3G 25	1.4	27.7	1512
3G 35	1.4	30.2	1907
3G 50	1.6	35.8	9651
3G 70	1.6	40.1	3484
3G 95	1.8	46.4	4594

Nom.Cross Section Area	Insulation thickness	Nom. overall diameter	Nom. weight
N x mm²	mm	mm	kg/km
4G 1	0.8	9.6	142
4G 1.5	0.8	10.6	180
4G 2.5	0.9	12.6	260
4G 4	1.0	14.6	336
4G 6	1.0	16.4	449
4G 10	1.2	21.8	833
4G 16	1.2	25.4	1138
4G 25	1.4	30.7	1714
4G 35	1.4	33.4	2204
4G 50	1.6	39.6	3029
4G 70	1.6	44.9	4121
4G 95	1.8	51.9	5361
4G 120	1.8	55.3	6546
4G 150	2.0	60.8	8095
4G 185	2.2	65.7	9652
4G 240	2.4	75.7	19614

Nom.Cross Section Area	Insulation thickness	Nom. overall diameter	Nom. weight
N x mm²	mm	mm	kg/km
5G 1.5	0.8	11.8	206
5G 2.5	0.9	14.0	297
5G 4	1.0	16.2	422
5G 6	1.0	18.2	567
5G 10	1.2	24.1	1010
5G 16	1.2	28.2	1400
5G 25	1.4	33.9	2096
5G 35	1.4	27.2	2700
5G 50	1.6	44.0	3730
5G 70	1.6	47.9	5033
5G 95	1.6	53.2	6271

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CONDUCTOR RESISTANCE

NOMINAL CROSS SECTIONAL AREA	MAXIMUM RESISTANCE OF CONDUCTOR AT 20℃
mm²	Ω/km
1	19.5
1.5	13.3
2.5	7.98
4	4.95
6	3.30
10	1.91
16	1.21
25	0.78
35	0.554
50	0.386
70	0.272
95	0.206
120	0.161
150	0.129
185	0.106
240	0.0801
300	0.0641
400	0.0486
500	0.0384
630	0.0287

CONDUCTOR CROSS SECTION AREA	SINGLE-PHASE A.C.OR D.C.	THREE-PHASE A.C.OR D.C.	SINGLE-PHASE A.C.OR D.C.
	1 TWO CORE CABLE	1THREE, FOUR OR FVE CORE CABLE	2 SINGLE CORE CABLE
mm²	A	A	A
4	30	27	-
6	39	34	-
10	51	47	-
16	73	63	-
25	97	83	-
35	-	102	140
50	-	124	175
70	-	158	216
95	-	192	258
120	-	222	302
150	-	255	347
185	-	291	394
240	-	343	471
300	-	394	541
400	-	-	644
500	-	-	738
630	-	-	861

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