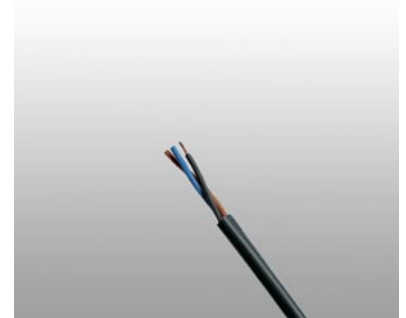




### P18 RU 0.6/1kV

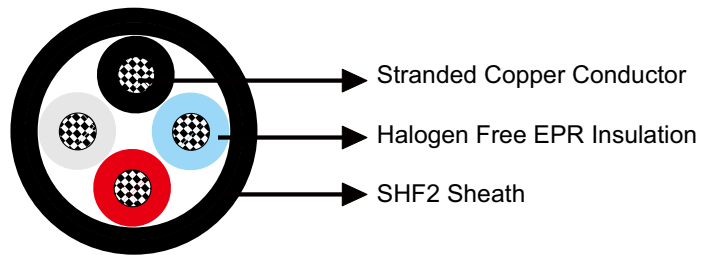
#### Applications

These cables are flame retardant, low smoke and halogen free, used for control, power and lighting systems.



#### Standards

- IEC 60092-353
- IEC 60092-351
- IEC 60092-359
- IEC 60332-1
- IEC 60332-3-22
- IEC 60754-1,2
- IEC 61034-1,2
- NEK 606:2004



#### Construction

- **Conductors:** Tinned annealed stranded copper to IEC 60228 class 2.
- **Insulation:** Halogen-free EPR.
- **Outer Sheath:** Halogen free thermosetting compound, SHF2, coloured black.

#### Electrical Characteristics

Nominal Cross Section Area	mm <sup>2</sup>	1.5	2.5	4	6	10	16	25	35
Nominal Conductor Diameter	mm	1.6	2.1	2.6	3.2	4	5.1	6.5	7.4
Maximum DC Resistant@20°C	Ω/km	12.2	7.56	4.7	3.11	1.84	1.16	0.734	0.529
Continuous Current Rating@45°C 1 Core	A	23	30	40	52	72	96	127	157
Continuous Current Rating@45°C 2 Core	A	20	26	34	44	61	82	108	133
Continuous Current Rating@45°C 3&4 Core	A	16	21	28	36	50	67	89	110
Short Circuit Current 1s	A	210	360	570	860	1430	2290	3580	5010
Operating Voltage	KV	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1



## Power and Control Cables

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Nominal Cross Section Area	mm <sup>2</sup>	50	70	95	120	150	185	240	300
Nominal Conductor Diameter	mm	8.7	10.3	12.2	13.8	15.1	17.0	19.6	21.9
Maximum DC Resistant@20°C	Ω/km	0.391	0.27	0.195	0.154	0.126	0.1	0.0762	0.0607
Continuous Current Rating@45°C 1 Core	A	196	242	293	339	389	444	522	601
Continuous Current Rating@45°C 2 Core	A	167	206	249	288	331	444	444	511
Continuous Current Rating@45°C 3&4 Core	A	137	169	205	237	272	311	365	421
Short Circuit Current 1s	A	7150	10020	13590	17170	21460	26470	34340	42930
Operating Voltage	KV	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1

Note: For more than 4-cores, the current ratings may be calculated from the following formula ( $I_N = I_1 / \sqrt[3]{N}$ ),  $I_1$  = Current rating for 1-core, N = Number of cores.

### Ambient Temperature Correction Factors

Ambient Temperature Correction Factors	35	40	45	50	55	60	65	70	75	80
Rating Factor	1.1	1.05	1.0	0.94	0.88	0.82	0.74	0.67	0.58	0.47

### Mechanical and Thermal Properties

- Bending Radius: 8×OD (during installation); 6×OD (fixed installed)
- Temperature Range: -20°C ~ +90°C

### Dimensions and Weight

Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×1.5	1.0	1.0	6.0	60
1×2.5	1.0	1.0	6.5	80
1×4	1.0	1.0	7.1	110
1×6	1.0	1.0	7.6	130
1×10	1.0	1.1	8.5	165
1×16	1.0	1.1	9.8	235
1×25	1.2	1.2	11.7	355
1×35	1.2	1.2	12.8	455
1×50	1.4	1.3	14.4	595
1×70	1.4	1.4	16.3	805
1×95	1.6	1.5	18.7	1090
1×120	1.6	1.5	20.3	1345
1×150	1.8	1.6	22.4	1635
1×185	2.0	1.7	24.9	2075



Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×240	2.2	1.8	28.1	2660
1×300	2.4	1.9	30.8	3340
2×1.5	1.0	1.1	9.7	145
2×2.5	1.0	1.1	10.5	175
2×4	1.0	1.2	11.6	225
2×6	1.0	1.2	12.9	295
2×10	1.0	1.3	14.8	420
2×16	1.0	1.4	17.2	605
2×25	1.2	1.5	21.3	940
2×35	1.2	1.6	23.3	1185
2×50	1.4	1.8	26.9	1585
2×70	1.4	1.9	31.9	2280
2×95	1.6	2.1	36.9	3090
2×120	1.6	2.2	40.3	3780
2×150	1.8	2.4	44.7	4640
2×185	2.0	2.6	49.5	5750
2×240	2.2	2.8	56.1	7460
2×300	2.4	3.0	62.0	9265
3×1.5	1.0	1.1	10.3	165
3×2.5	1.0	1.2	11.1	205
3×4	1.0	1.2	12.5	280
3×6	1.0	1.3	13.6	360
3×10	1.0	1.3	16.0	530
3×16	1.0	1.4	18.5	770
3×25	1.2	1.6	22.9	1200
3×35	1.2	1.7	25.0	1525
3×50	1.4	1.8	28.7	2030
3×70	1.4	2.0	32.6	2765
3×95	1.6	2.2	37.6	3745
3×120	1.6	2.3	41.2	4640
3×150	1.8	2.5	45.7	5675
3×185	2.0	2.7	51.2	7200
3×240	2.2	3.0	57.5	9300
3×300	2.4	3.2	66.8	12080
4×1.5	1.0	1.2	11.2	200
4×2.5	1.0	1.2	12.4	255
4×4	1.0	1.3	13.7	340
4×6	1.0	1.3	15.2	455
4×10	1.0	1.4	17.5	665
4×16	1.0	1.5	20.4	970
4×25	1.2	1.7	25.5	1530
4×35	1.2	1.8	27.8	1955
4×50	1.4	2.0	31.9	2600



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Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
4×70	1.4	2.1	36.3	3540
4×95	1.6	2.4	42.0	4815
4×120	1.6	2.5	46.0	5965
4×150	1.8	2.7	53.5	7720
4×185	2.0	2.9	59.2	9570
4×240	2.2	3.2	67.3	12480
4×300	2.4	3.5	74.6	15870
5×1.5	1.0	1.2	13.1	245
6×1.5	1.0	1.3	14.4	275
7×1.5	1.0	1.3	14.4	285
8×1.5	1.0	1.4	16.9	380
9×1.5	1.0	1.4	18.1	395
10×1.5	1.0	1.4	18.4	435
12×1.5	1.0	1.4	19.0	485
14×1.5	1.0	1.5	20.2	565
16×1.5	1.0	1.5	21.3	615
19×1.5	1.0	1.6	22.6	715
20×1.5	1.0	1.6	23.8	780
23×1.5	1.0	1.7	25.9	905
24×1.5	1.0	1.7	26.6	920
27×1.5	1.0	1.7	27.2	985
30×1.5	1.0	1.8	28.4	1110
33×1.5	1.0	1.8	29.5	1190
37×1.5	1.0	1.9	30.8	1315
44×1.5	1.0	2.0	34.8	1560
5×2.5	1.0	1.3	14.3	305
6×2.5	1.0	1.3	15.6	360
7×2.5	1.0	1.3	15.6	390
8×2.5	1.0	1.4	18.4	495
9×2.5	1.0	1.5	19.9	505
10×2.5	1.0	1.5	20.2	570
12×2.5	1.0	1.5	20.9	625
14×2.5	1.0	1.5	21.9	735
16×2.5	1.0	1.6	23.3	810
19×2.5	1.0	1.6	24.6	935
20×2.5	1.0	1.7	26.1	1035
23×2.5	1.0	1.8	28.4	1205
24×2.5	1.0	1.8	29.2	1220
27×2.5	1.0	1.8	29.9	1295
30×2.5	1.0	1.9	31.1	1475
33×2.5	1.0	1.9	32.3	1585
37×2.5	1.0	2.0	33.8	1730
44×2.5	1.0	2.2	38.4	2100