



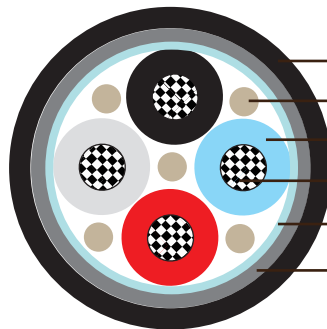
Water Blocked P18 RU 0.6/1kV

Applications

These cables are partially water blocked, 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
- VG 95218 part 29



- Polyurethane Outer Sheath
- Water Blocking Fillers
- Halogen Free EPR Insulation
- Stranded Copper Conductor
- Water Blocking tape
- SHF2 Inner Sheath

Construction

- **Conductors:** Tinned annealed stranded copper to IEC 60228 class 2.
- **Insulation:** Halogen-free EPR.
- **Filler:** Water blocking fillers, if required
- **Water Blocking Elements:** Water blocking tape and strings for providing longitudinal water tightness.
- **Inner Sheath:** Halogen free thermosetting compound, SHF2, coloured black.
- **Outer Sheath:** Polyurethane for providing transversal water tightness, PE is optional, but can not meet low smoke standard.

Electrical Characteristics

Nominal Cross Section Area	mm ²	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
Nominal Cross Section Area	mm ²	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 ²)	Nominal Insulation Thickness mm	Nominal Inner Sheath Thickness mm	Nominal Outer Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×1.5	1.0	1.0	1.0	8.0±2	63
1×2.5	1.0	1.0	1.0	8.5±2	84
1×4	1.0	1.0	1.0	9.1±2	116
1×6	1.0	1.0	1.0	9.6±2	137
1×10	1.0	1.1	1.0	10.5±2	173
1×16	1.0	1.1	1.0	11.8±2	247
1×25	1.2	1.2	1.2	14.1±2	373
1×35	1.2	1.2	1.2	15.2±2	478





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Construction No. of cores×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Inner Sheath Thickness mm	Nominal Outer Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×50	1.4	1.3	1.2	16.8±2	625
1×70	1.4	1.4	1.2	18.7±2	845
1×95	1.6	1.5	1.4	21.5±2	1145
1×120	1.6	1.5	1.4	23.1±2	1412
1×150	1.8	1.6	1.4	25.2±2	1717
1×185	2.0	1.7	1.4	27.7±2	2179
1×240	2.2	1.8	1.6	31.2±2	2793
1×300	2.4	1.9	1.6	34.0±2	3507
2×1.5	1.0	1.1	1.0	11.7±2	152
2×2.5	1.0	1.1	1.0	12.5±2	184
2×4	1.0	1.2	1.0	13.6±2	236
2×6	1.0	1.2	1.0	14.9±2	310
2×10	1.0	1.3	1.0	16.8±2	441
2×16	1.0	1.4	1.0	19.2±2	635
2×25	1.2	1.5	1.2	23.7±2	987
2×35	1.2	1.6	1.2	25.7±2	1244
2×50	1.4	1.8	1.2	29.3±2	1664
2×70	1.4	1.9	1.2	34.3±2	2394
2×95	1.6	2.1	1.4	39.7±2	3245
2×120	1.6	2.2	1.4	43.1±2	3969
2×150	1.8	2.4	1.4	47.5±2	4872
2×185	2.0	2.6	1.4	52.3±2	6038
2×240	2.2	2.8	1.6	59.3±2	7833
2×300	2.4	3.0	1.6	65.2±2	9728
3×1.5	1.0	1.1	1.0	12.3±2	173
3×2.5	1.0	1.2	1.0	13.1±2	215
3×4	1.0	1.2	1.0	14.5±2	294
3×6	1.0	1.3	1.0	15.6±2	378
3×10	1.0	1.3	1.0	18.0±2	557
3×16	1.0	1.4	1.0	20.5±2	809
3×25	1.2	1.6	1.2	25.3±2	1260
3×35	1.2	1.7	1.2	27.4±2	1601
3×50	1.4	1.8	1.2	31.1±2	2132
3×70	1.4	2.0	1.2	35.0±2	2903
3×95	1.6	2.2	1.4	40.4±2	3932
3×120	1.6	2.3	1.4	44.0±2	4872
3×150	1.8	2.5	1.4	48.5±2	5959
3×185	2.0	2.7	1.4	54.0±2	7560
3×240	2.2	3.0	1.6	60.7±2	9765
3×300	2.4	3.2	1.6	70.0±2	12684





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Construction No. of cores×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Inner Sheath Thickness mm	Nominal Outer Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
4×1.5	1.0	1.2	1.0	13.2±2	210
4×2.5	1.0	1.2	1.0	14.4±2	268
4×4	1.0	1.3	1.0	15.7±2	357
4×6	1.0	1.3	1.0	17.2±2	478
4×10	1.0	1.4	1.0	19.5±2	698
4×16	1.0	1.5	1.0	22.4±2	1019
4×25	1.2	1.7	1.2	27.9±2	1607
4×35	1.2	1.8	1.2	30.2±2	2053
4×50	1.4	2.0	1.2	34.3±2	2730
4×70	1.4	2.1	1.2	38.7±2	3717
4×95	1.6	2.4	1.4	44.8±2	5056
4×120	1.6	2.5	1.4	48.8±2	6263
4×150	1.8	2.7	1.4	56.3±2	8106
4×185	2.0	2.9	1.4	62.0±2	10049
4×240	2.2	3.2	1.6	70.5±2	13104
4×300	2.4	3.5	1.6	77.8±2	16664
5×1.5	1.0	1.2	1.0	15.1±2	257
6×1.5	1.0	1.3	1.0	16.4±2	289
7×1.5	1.0	1.3	1.0	16.4±2	299
8×1.5	1.0	1.4	1.0	18.9±2	399
9×1.5	1.0	1.4	1.0	20.1±2	415
10×1.5	1.0	1.4	1.0	20.4±2	457
12×1.5	1.0	1.4	1.0	21.0±2	509
14×1.5	1.0	1.5	1.0	22.2±2	593
16×1.5	1.0	1.5	1.0	23.3±2	646
19×1.5	1.0	1.6	1.0	24.6±2	751
20×1.5	1.0	1.6	1.0	25.8±2	819
23×1.5	1.0	1.7	1.0	27.9±2	950
24×1.5	1.0	1.7	1.0	28.6±2	966
27×1.5	1.0	1.7	1.0	29.2±2	1034
30×1.5	1.0	1.8	1.0	30.4±2	1166
33×1.5	1.0	1.8	1.0	31.5±2	1250
37×1.5	1.0	1.9	1.0	32.8±2	1381
44×1.5	1.0	2.0	1.0	36.8±2	1638
5×2.5	1.0	1.3	1.0	16.3±2	320
6×2.5	1.0	1.3	1.0	17.6±2	378
7×2.5	1.0	1.3	1.0	17.6±2	410
8×2.5	1.0	1.4	1.0	20.4±2	520
9×2.5	1.0	1.5	1.0	21.9±2	530
10×2.5	1.0	1.5	1.0	22.2±2	599





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Construction No. of cores×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Inner Sheath Thickness mm	Nominal Outer Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
12×2.5	1.0	1.5	1.0	22.9±2	656
14×2.5	1.0	1.5	1.0	23.9±2	772
16×2.5	1.0	1.6	1.0	25.3±2	851
19×2.5	1.0	1.6	1.0	26.6±2	982
20×2.5	1.0	1.7	1.0	28.1±2	1087
23×2.5	1.0	1.8	1.0	30.4±2	1265
24×2.5	1.0	1.8	1.0	31.2±2	1281
27×2.5	1.0	1.8	1.0	31.9±2	1360
30×2.5	1.0	1.9	1.0	33.1±2	1549
33×2.5	1.0	1.9	1.0	34.3±2	1664
37×2.5	1.0	2.0	1.0	35.8±2	1817
44×2.5	1.0	2.2	1.0	40.4±2	2205



Standard



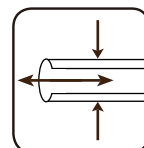
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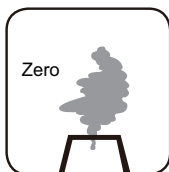
Standard



Standard



Water Tightness
VG 95218-29



Halogen Free
IEC60754-1



Low Corrosivity
IEC60754-2



Low Smoke Emission
IEC 61034-1&2



Flame Retardancy
IEC60332-1



Reduced Fire Propagation
IEC60332-3-22

