



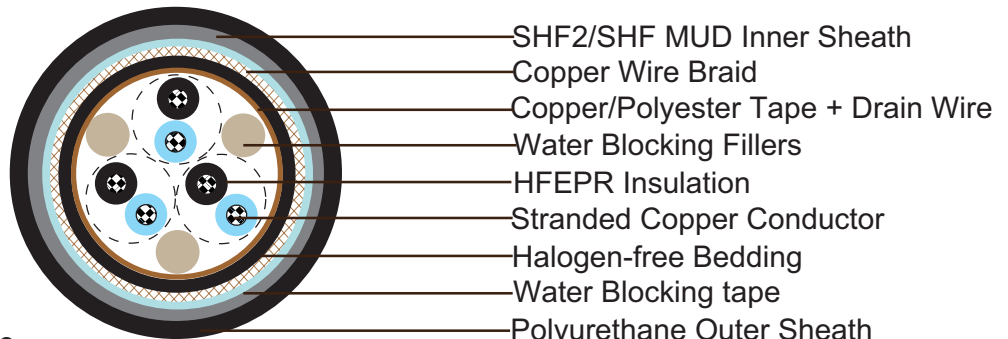
Water Blocked S2 or S2/S6 RFOU(c) 250V

Applications

These cables are partially water blocked, flame retardant, low smoke, halogen free and mud resistant, used for instrumentation, communication, control and alarm systems.

Standards

- IEC 60092-376
- 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



Construction

- **Conductors:** Circular tinned annealed stranded copper wire to IEC 60228 class 2.
- **Insulation:** Halogen free EPR compound.
- **Twinning:** Colour coded cores twisted together.
- **Filler:** Water blocking fillers, if required.
- **Collective Shielding:** Pairs/triples are layed up and collectively screened by copper backed polyester tape in contact with a stranded tinned copper drain wire. Pairs/triples are numbered with numbered tape or by numbers printed directly on the insulated conductors.
- **Bedding:** Halogen free compound, PETP wrapping tape will be applied over the bedding, if required.
- **Armour:** Tinned copper wire braid, PETP wrapping tape will be applied over the braiding, if required.
- **Water Blocking Elements:** Water blocking tape and strings for providing longitudinal water tightness.
- **Inner Sheath:** Halogen free thermosetting compound, SHF2 (for TYPE S2). Halogen free MUD resistant thermosetting compound, SHF MUD (for TYPE S2/S6), coloured

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grey (blue for intrinsically safe).

- **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	0.75	1.0	1.5	2.5
Nominal Conductor Diameter	mm	1.1	1.3	1.6	2.0
Maximum Resistant@20°C	Ω/km	26.3	19.3	12.9	8.02
Mutual Capacitance	nF/km	80	90	100	110
Nominal Inductance@1KHz	MH/km	0.682	0.645	0.632	0.593
Maximum L/R@1KHz	μH/Ω	20	25	35	50
Operating Voltage	V	250	250	250	250

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 elements×No. of cores in element×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Bedding Thickness mm	Nominal Inner Sheath Thickness mm	Nominal Outer Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×2×0.75	0.6	1.1	1.1	1.0	13.1±2	210
2×2×0.75	0.6	1.1	1.3	1.0	17.0±2	310
3×2×0.75	0.6	1.1	1.3	1.0	17.6±2	373
4×2×0.75	0.6	1.1	1.3	1.0	18.4±2	410
5×2×0.75	0.6	1.1	1.4	1.0	19.8±2	567
6×2×0.75	0.6	1.1	1.4	1.0	21.1±2	641
7×2×0.75	0.6	1.1	1.4	1.0	21.1±2	656
8×2×0.75	0.6	1.1	1.5	1.0	22.7±2	714
9×2×0.75	0.6	1.1	1.5	1.0	23.8±2	782
10×2×0.75	0.6	1.1	1.6	1.0	24.9±2	798
12×2×0.75	0.6	1.1	1.6	1.0	25.4±2	851
14×2×0.75	0.6	1.1	1.6	1.0	26.5±2	919
15×2×0.75	0.6	1.1	1.7	1.0	28.1±2	1008
16×2×0.75	0.6	1.1	1.7	1.0	28.5±2	1061
18×2×0.75	0.6	1.1	1.8	1.0	29.9±2	1134
19×2×0.75	0.6	1.1	1.8	1.0	30.2±2	1171



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Construction No. of elements×No. of cores in element×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Bedding Thickness mm	Nominal Inner Sheath Thickness mm	Nominal Outer Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
20×2×0.75	0.6	1.1	1.8	1.0	31.2±2	1271
21×2×0.75	0.6	1.1	1.8	1.0	32.0±2	1318
23×2×0.75	0.6	1.1	1.9	1.0	32.6±2	1423
24×2×0.75	0.6	1.1	1.9	1.0	33.9±2	1439
27×2×0.75	0.6	1.2	1.9	1.0	34.9±2	1554
30×2×0.75	0.6	1.2	2.0	1.0	36.1±2	1685
33×2×0.75	0.6	1.2	2.0	1.0	37.3±2	1811
37×2×0.75	0.6	1.2	2.1	1.0	38.9±2	2048
1×3×0.75	0.6	1.1	1.2	1.0	13.7±2	242
2×3×0.75	0.6	1.1	1.3	1.0	16.5±2	378
3×3×0.75	0.6	1.1	1.3	1.0	18.2±2	436
4×3×0.75	0.6	1.1	1.4	1.0	19.6±2	567
5×3×0.75	0.6	1.1	1.4	1.0	21.1±2	677
6×3×0.75	0.6	1.1	1.5	1.0	23.1±2	793
7×3×0.75	0.6	1.1	1.5	1.0	23.1±2	819
8×3×0.75	0.6	1.1	1.6	1.0	24.6±2	887
9×3×0.75	0.6	1.1	1.6	1.0	25.9±2	992
10×3×0.75	0.6	1.1	1.7	1.0	27.7±2	1008
12×3×0.75	0.6	1.1	1.7	1.0	28.4±2	1134
14×3×0.75	0.6	1.1	1.7	1.0	29.5±2	1208
15×3×0.75	0.6	1.1	1.8	1.0	30.5±2	1292
16×3×0.75	0.6	1.1	1.8	1.0	31.2±2	1376
18×3×0.75	0.6	1.1	1.9	1.0	32.7±2	1475
19×3×0.75	0.6	1.1	1.9	1.0	33.0±2	1549
20×3×0.75	0.6	1.1	1.9	1.0	33.8±2	1638
21×3×0.75	0.6	1.2	1.9	1.0	34.7±2	1722
23×3×0.75	0.6	1.2	2.0	1.0	36.1±2	1885
24×3×0.75	0.6	1.2	2.0	1.0	36.6±2	1922
27×3×0.75	0.6	1.2	2.1	1.0	38.8±2	2142
30×3×0.75	0.6	1.2	2.1	1.0	#VALUE!	2321
32×3×0.75	0.6	1.2	2.2	1.0	41.5±2	2462
1×2×1.0	0.6	1.1	1.2	1.0	13.7±2	236
2×2×1.0	0.6	1.1	1.3	1.0	15.4±2	352
3×2×1.0	0.6	1.1	1.3	1.0	18.3±2	494
4×2×1.0	0.6	1.1	1.4	1.0	19.4±2	562
5×2×1.0	0.6	1.1	1.4	1.0	20.7±2	641
6×2×1.0	0.6	1.1	1.5	1.0	22.2±2	735
7×2×1.0	0.6	1.1	1.5	1.0	22.2±2	756
8×2×1.0	0.6	1.1	1.5	1.0	23.8±2	814
9×2×1.0	0.6	1.1	1.6	1.0	25.2±2	893

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Construction No. of elements×No. of cores in element×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Bedding Thickness mm	Nominal Inner Sheath Thickness mm	Nominal Outer Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
10×2×1.0	0.6	1.1	1.6	1.0	26.1±2	924
12×2×1.0	0.6	1.1	1.6	1.0	26.7±2	1029
14×2×1.0	0.6	1.1	1.7	1.0	28.0±2	1082
15×2×1.0	0.6	1.1	1.8	1.0	29.8±2	1181
16×2×1.0	0.6	1.1	1.8	1.0	30.2±2	1234
18×2×1.0	0.6	1.1	1.8	1.0	31.5±2	1318
19×2×1.0	0.6	1.1	1.8	1.0	31.8±2	1360
20×2×1.0	0.6	1.1	1.9	1.0	33.1±2	1491
21×2×1.0	0.6	1.1	1.9	1.0	33.9±2	1549
23×2×1.0	0.6	1.2	1.9	1.0	34.7±2	1691
24×2×1.0	0.6	1.2	2.0	1.0	36.3±2	1701
27×2×1.0	0.6	1.2	2.0	1.0	37.0±2	1832
30×2×1.0	0.6	1.2	2.1	1.0	38.7±2	2079
33×2×1.0	0.6	1.2	2.1	1.0	40.0±2	2237
37×2×1.0	0.6	1.2	2.2	1.0	41.3±2	2420
1×3×1.0	0.6	1.1	1.2	1.0	14.0±2	263
2×3×1.0	0.6	1.1	1.4	1.0	19.0±2	546
3×3×1.0	0.6	1.1	1.4	1.0	19.4±2	567
4×3×1.0	0.6	1.1	1.4	1.0	20.7±2	656
5×3×1.0	0.6	1.1	1.5	1.0	22.2±2	782
6×3×1.0	0.6	1.1	1.6	1.0	24.4±2	919
7×3×1.0	0.6	1.1	1.6	1.0	24.4±2	950
8×3×1.0	0.6	1.1	1.6	1.0	25.8±2	1029
9×3×1.0	0.6	1.1	1.7	1.0	27.4±2	1134
10×3×1.0	0.6	1.1	1.7	1.0	29.1±2	1208
12×3×1.0	0.6	1.1	1.8	1.0	30.1±2	1328
14×3×1.0	0.6	1.1	1.8	1.0	31.2±2	1423
15×3×1.0	0.6	1.1	1.8	1.0	32.1±2	1512
16×3×1.0	0.6	1.1	1.9	1.0	33.1±2	1649
18×3×1.0	0.6	1.2	1.9	1.0	34.8±2	1759
19×3×1.0	0.6	1.2	2.0	1.0	35.3±2	1838
20×3×1.0	0.6	1.2	2.0	1.0	36.1±2	1974
21×3×1.0	0.6	1.2	2.0	1.0	36.8±2	2048
23×3×1.0	0.6	1.2	2.1	1.0	38.6±2	2326
24×3×1.0	0.6	1.2	2.1	1.0	39.3±2	2310
27×3×1.0	0.6	1.2	2.2	1.0	41.2±2	2546
30×3×1.0	0.6	1.2	2.2	1.0	42.8±2	2762
32×3×1.0	0.6	1.2	2.3	1.0	44.1±2	2930
1×2×1.5	0.7	1.1	1.2	1.0	14.7±2	273
2×2×1.5	0.7	1.1	1.4	1.0	17.4±2	441



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Construction No. of elements×No. of cores in element×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Bedding Thickness mm	Nominal Inner Sheath Thickness mm	Nominal Outer Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
3×2×1.5	0.7	1.1	1.4	1.0	19.6±2	614
4×2×1.5	0.7	1.1	1.4	1.0	20.8±2	667
5×2×1.5	0.7	1.1	1.5	1.0	23.1±2	809
6×2×1.5	0.7	1.1	1.6	1.0	24.8±2	935
7×2×1.5	0.7	1.1	1.6	1.0	24.8±2	971
8×2×1.5	0.7	1.1	1.6	1.0	25.7±2	1024
9×2×1.5	0.7	1.1	1.7	1.0	28.3±2	1113
10×2×1.5	0.7	1.1	1.7	1.0	29.4±2	1187
12×2×1.5	0.7	1.1	1.8	1.0	30.3±2	1334
14×2×1.5	0.7	1.1	1.8	1.0	31.5±2	1391
15×2×1.5	0.7	1.1	1.9	1.0	33.6±2	1517
16×2×1.5	0.7	1.1	1.9	1.0	34.1±2	1654
18×2×1.5	0.7	1.2	2.0	1.0	36.2±2	1754
19×2×1.5	0.7	1.2	2.0	1.0	36.5±2	1853
20×2×1.5	0.7	1.2	2.1	1.0	38.0±2	1990
21×2×1.5	0.7	1.2	2.1	1.0	39.3±2	2153
23×2×1.5	0.7	1.2	2.1	1.0	39.9±2	2294
24×2×1.5	0.7	1.2	2.2	1.0	41.8±2	2310
27×2×1.5	0.7	1.2	2.2	1.0	42.6±2	2510
30×2×1.5	0.7	1.2	2.3	1.0	44.1±2	2730
33×2×1.5	0.7	1.2	2.3	1.0	45.6±2	2945
37×2×1.5	0.7	1.4	2.4	1.0	47.4±2	3234
1×3×1.5	0.7	1.1	1.2	1.0	15.2±2	310
2×3×1.5	0.7	1.1	1.4	1.0	19.0±2	515
3×3×1.5	0.7	1.1	1.5	1.0	21.5±2	719
4×3×1.5	0.7	1.1	1.5	1.0	22.9±2	824
5×3×1.5	0.7	1.1	1.6	1.0	23.0±2	861
6×3×1.5	0.7	1.1	1.7	1.0	24.8±2	1008
7×3×1.5	0.7	1.1	1.7	1.0	27.1±2	1192
8×3×1.5	0.7	1.1	1.7	1.0	29.0±2	1334
9×3×1.5	0.7	1.1	1.8	1.0	30.9±2	1517
10×3×1.5	0.7	1.1	1.9	1.0	33.1±2	1523
12×3×1.5	0.7	1.1	1.9	1.0	33.5±2	1796
14×3×1.5	0.7	1.2	2.0	1.0	35.8±2	1906
15×3×1.5	0.7	1.2	2.0	1.0	36.8±2	2027
16×3×1.5	0.7	1.2	2.1	1.0	38.0±2	2216
18×3×1.5	0.7	1.2	2.1	1.0	40.1±2	2420
19×3×1.5	0.7	1.2	2.2	1.0	40.6±2	2494
20×3×1.5	0.7	1.2	2.2	1.0	41.6±2	2709
21×3×1.5	0.7	1.2	2.2	1.0	42.4±2	2814

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Construction No. of elements×No. of cores in element×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Bedding Thickness mm	Nominal Inner Sheath Thickness mm	Nominal Outer Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
23×3×1.5	0.7	1.2	2.3	1.0	44.0±2	3071
24×3×1.5	0.7	1.2	2.3	1.0	44.7±2	3297
27×3×1.5	0.7	1.4	2.4	1.0	47.3±2	3413
30×3×1.5	0.7	1.4	2.5	1.0	49.4±2	3733
32×3×1.5	0.7	1.4	2.5	1.0	50.6±2	3932
1×2×2.5	0.7	1.1	1.2	1.0	15.5±2	315
2×2×2.5	0.7	1.1	1.4	1.0	20.9±2	683
3×2×2.5	0.7	1.1	1.5	1.0	21.9±2	756
4×2×2.5	0.7	1.1	1.5	1.0	23.1±2	861
5×2×2.5	0.7	1.1	1.6	1.0	25.0±2	1013
6×2×2.5	0.7	1.1	1.6	1.0	26.8±2	1160
7×2×2.5	0.7	1.1	1.6	1.0	26.8±2	1208
8×2×2.5	0.7	1.1	1.7	1.0	29.0±2	1318
9×2×2.5	0.7	1.1	1.8	1.0	30.8±2	1454
10×2×2.5	0.7	1.1	1.8	1.0	32.0±2	1502
12×2×2.5	0.7	1.3	1.9	1.0	33.0±2	1622
14×2×2.5	0.7	1.2	1.9	1.0	34.7±2	1817
15×2×2.5	0.7	1.2	2.0	1.0	37.0±2	1979
16×2×2.5	0.7	1.2	2.0	1.0	37.6±2	2069
18×2×2.5	0.7	1.2	2.1	1.0	39.9±2	2347
19×2×2.5	0.7	1.2	2.1	1.0	40.3±2	2431
20×2×2.5	0.7	1.2	2.2	1.0	41.9±2	2657
21×2×2.5	0.7	1.2	2.2	1.0	43.0±2	2762
23×2×2.5	0.7	1.2	2.3	1.0	43.8±2	2888
24×2×2.5	0.7	1.2	2.3	1.0	45.7±2	2993
27×2×2.5	0.7	1.4	2.4	1.0	47.1±2	3308
30×2×2.5	0.7	1.4	2.5	1.0	48.8±2	3607
33×2×2.5	0.7	1.4	2.5	1.0	50.5±2	3901
37×2×2.5	0.7	1.4	2.6	1.0	52.2±2	4242
1×3×2.5	0.7	1.1	1.3	1.0	16.3±2	378
2×3×2.5	0.7	1.1	1.5	1.0	22.5±2	824
3×3×2.5	0.7	1.1	1.5	1.0	23.2±2	919
4×3×2.5	0.7	1.1	1.6	1.0	24.9±2	1087
5×3×2.5	0.7	1.1	1.6	1.0	26.8±2	1265
6×3×2.5	0.7	1.1	1.8	1.0	29.8±2	1502
7×3×2.5	0.7	1.1	1.8	1.0	29.8±2	1580
8×3×2.5	0.7	1.1	1.8	1.0	31.6±2	1706
9×3×2.5	0.7	1.1	1.9	1.0	33.7±2	1948
10×3×2.5	0.7	1.2	2.0	1.0	36.4±2	1985
12×3×2.5	0.7	1.2	2.0	1.0	37.5±2	2216



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Construction No. of elements×No. of cores in element×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Bedding Thickness mm	Nominal Inner Sheath Thickness mm	Nominal Outer Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
14×3×2.5	0.7	1.2	2.1	1.0	39.6±2	2567
15×3×2.5	0.7	1.2	2.2	1.0	40.9±2	2751
16×3×2.5	0.7	1.2	2.2	1.0	42.0±2	2893
18×3×2.5	0.7	1.2	2.3	1.0	44.0±2	3161
19×3×2.5	0.7	1.2	2.3	1.0	44.4±2	3281
20×3×2.5	0.7	1.2	2.3	1.0	45.5±2	3528
21×3×2.5	0.7	1.4	2.4	1.0	46.9±2	3733
23×3×2.5	0.7	1.4	2.5	1.0	48.7±2	4079
24×3×2.5	0.7	1.4	2.5	1.0	49.5±2	4064
27×3×2.5	0.7	1.4	2.6	1.0	52.0±2	4494
30×3×2.5	0.7	1.4	2.7	1.0	54.3±2	4930
32×3×2.5	0.7	1.4	2.7	1.0	55.8±2	5208



Standard



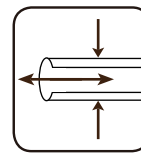
Standard



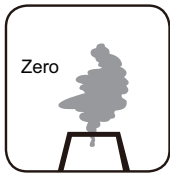
Standard



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