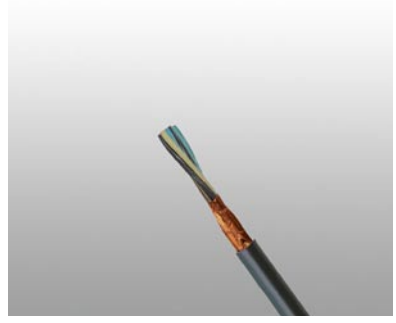
S12 RU(c) 250 V

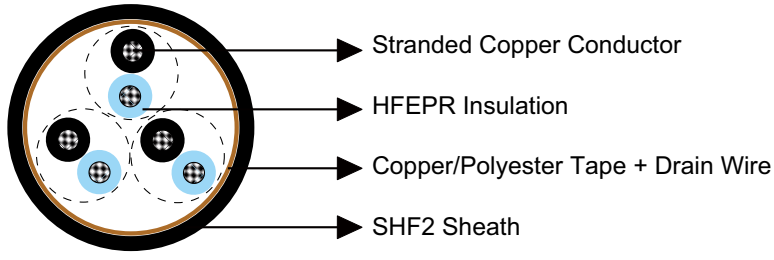
Applications



These unarmoured cables are flame retardant, low smoke and halogen free, 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



Construction

- **Conductors:** Circular tinned annealed stranded copper wire to IEC 60228 class 2.
- **Insulation:** Halogen free EPR compound.
- **Twinning:** Colour coded cores twisted together.
- **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.
- **Outer Sheath:** Halogen free thermosetting compound, SHF2, coloured grey (blue for intrinsically safe).

Electrical Characteristics

Nominal Cross Section Area	mm²	0.75	1.0	1.5
Nominal Conductor Diameter	mm	1.1	1.3	1.6

Maximum Resistant@20℃	Ω/km	26.3	19.3	12.9
Mutual Capacitance	nF/km	80	90	100
Nominal Inductance@1KHz	MH/km	0.682	0.645	0.632
Maximum L/R@1KHz	μH/Ω	20	25	35
Operating Voltage	V	250	250	250

Mechanical and Thermal Properties

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

Dimensions and Weight

Construction No. of elements×No. of cores in element×Cross section(mm²)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×2×0.75	0.6	1.1	9.4	160
4×2×0.75	0.6	1.1	11.5	215
7×2×0.75	0.6	1.3	13.6	300
8×2×0.75	0.6	1.3	14.7	340
12×2×0.75	0.6	1.4	17.6	465
16×2×0.75	0.6	1.5	19.7	595
19×2×0.75	0.6	1.5	20.7	665
24×2×0.75	0.6	1.7	24.1	850
32×2×0.75	0.6	2.0	26.7	1065
2×3×0.75	0.6	1.1	11.0	170
3×3×0.75	0.6	1.1	12.1	235
4×3×0.75	0.6	1.2	13.1	280
7×3×0.75	0.6	1.4	15.7	410
8×3×0.75	0.6	1.4	17.5	490
12×3×0.75	0.6	1.5	20.6	645
16×3×0.75	0.6	1.6	23.1	835
19×3×0.75	0.6	1.7	24.3	940
24×3×0.75	0.6	1.8	28.2	1210
2×2×1.0	0.6	1.1	9.9	190
4×2×1.0	0.6	1.1	12.3	255
7×2×1.0	0.6	1.3	14.7	370
8×2×1.0	0.6	1.3	15.7	410
12×2×1.0	0.6	1.5	18.9	565
16×2×1.0	0.6	1.6	21.1	730
19×2×1.0	0.6	1.7	22.5	830

Construction No. of elements×No. of cores in element×Cross section(mm²)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
24×2×1.0	0.6	1.8	25.9	1050
32×2×1.0	0.6	2.1	28.7	1315
3×3×1.0	0.6	1.1	12.9	280
4×3×1.0	0.6	1.3	14.0	335
7×3×1.0	0.6	1.5	16.9	500
12×3×1.0	0.6	1.6	22.1	795
16×3×1.0	0.6	1.6	24.8	1025
19×3×1.0	0.6	1.8	26.3	1175
24×3×1.0	0.6	2.0	30.4	1490
2×2×1.5	0.7	1.2	11.3	250
4×2×1.5	0.7	1.2	14.1	345
7×2×1.5	0.7	1.4	17.2	515
8×2×1.5	0.7	1.4	18.4	575
12×2×1.5	0.7	1.6	22.4	810
16×2×1.5	0.7	1.7	25.0	1045
19×2×1.5	0.7	1.8	26.4	1175
24×2×1.5	0.7	1.9	30.7	1505
32×2×1.5	0.7	2.2	33.9	1890
2×3×1.5	0.7	1.2	13.5	265
3×3×1.5	0.7	1.2	14.9	380
4×3×1.5	0.7	1.3	16.3	465
7×3×1.5	0.7	1.5	19.8	705
8×3×1.5	0.7	1.5	21.5	820
12×3×1.5	0.7	1.7	26.2	1140
16×3×1.5	0.7	1.8	29.4	1475
19×3×1.5	0.7	1.9	30.9	1675
24×3×1.5	0.7	2.1	36.2	2160