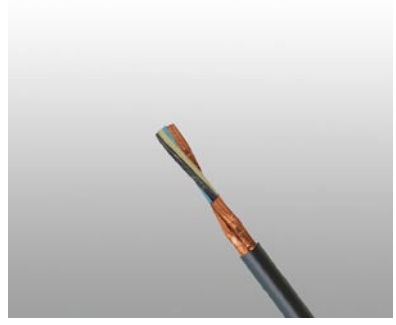
S13 BU(i) 250 V

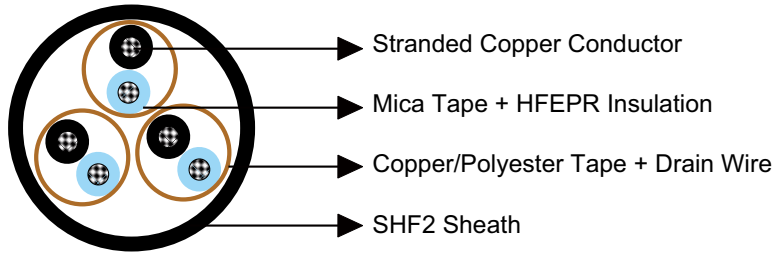
Applications



These cables are fire resistant, 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 60331-21
- 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:** Mica tape + Halogen free EPR compound.
- **Twinning:** Colour coded cores twisted together.
- **Individual Shielding:** Each pairs/triples are screened by copper backed polyester tape in contact with a stranded tinned copper drain wire and wrapped with polyester tape. 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	2.5
Nominal Conductor Diameter	mm	1.1	1.3	1.6	2.0
Maximum Resistant@20℃	Ω/km	26.3	19.3	12.9	8.02
Mutual Capacitance	nF/km	85	95	100	110
Nominal Inductance@1KHz	MH/km	0.731	0.691	0.673	0.629
Maximum L/R@1KHz	μH/Ω	20	25	35	55
Operating Voltage	V	250	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
1×2×0.75	0.6	1.0	8.2	105
2×2×0.75	0.6	1.2	10.5	205
4×2×0.75	0.6	1.2	13.2	290
7×2×0.75	0.6	1.4	16.0	445
8×2×0.75	0.6	1.4	17.3	495
12×2×0.75	0.6	1.6	21.1	705
16×2×0.75	0.6	1.7	23.5	915
19×2×0.75	0.6	1.8	24.8	1035
24×2×0.75	0.6	1.9	28.6	1320
32×2×0.75	0.6	2.0	31.7	1670
1×3×0.75	0.6	1.0	8.6	120
2×3×0.75	0.6	1.2	12.0	205
3×3×0.75	0.6	1.2	13.8	300
4×3×0.75	0.6	1.3	15.1	365
7×3×0.75	0.6	1.5	18.3	560
8×3×0.75	0.6	1.5	19.5	650
12×3×0.75	0.6	1.7	24.4	915
16×3×0.75	0.6	1.8	27.3	1185
19×3×0.75	0.6	1.9	29.0	1360
24×3×0.75	0.6	2.1	33.7	1750

Fire Resistant Instrumentation Cables

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
1×2×1.0	0.6	1.0	8.6	125
2×2×1.0	0.6	1.2	11.1	240
4×2×1.0	0.6	1.3	14.0	345
7×2×1.0	0.6	1.5	16.9	525
8×2×1.0	0.6	1.5	18.5	600
12×2×1.0	0.6	1.6	22.3	840
16×2×1.0	0.6	1.6	24.9	1095
19×2×1.0	0.6	1.8	26.5	1255
24×2×1.0	0.6	1.9	30.5	1605
32×2×1.0	0.6	2.0	33.8	2030
1×3×1.0	0.6	1.0	9.1	140
3×3×1.0	0.6	1.3	14.7	360
4×3×1.0	0.6	1.3	16.1	440
7×3×1.0	0.6	1.6	19.7	695
12×3×1.0	0.6	1.7	26.0	1115
16×3×1.0	0.6	1.8	29.2	1455
19×3×1.0	0.6	1.9	31.0	1675
24×3×1.0	0.6	2.1	36.1	2145
1×2×1.5	0.7	1.0	9.6	155
2×2×1.5	0.7	1.3	12.6	310
4×2×1.5	0.7	1.4	16.1	450
7×2×1.5	0.7	1.6	19.4	690
8×2×1.5	0.7	1.6	21.3	780
12×2×1.5	0.7	1.7	25.7	1100
16×2×1.5	0.7	1.9	28.9	1450
19×2×1.5	0.7	2.0	30.5	1645
24×2×1.5	0.7	2.2	35.3	2115
32×2×1.5	0.7	2.3	39.1	2680
1×3×1.5	0.7	1.1	10.1	175
2×3×1.5	0.7	1.3	14.5	320
3×3×1.5	0.7	1.3	16.8	470
4×3×1.5	0.7	1.4	18.4	580
7×3×1.5	0.7	1.7	22.6	910
8×3×1.5	0.7	1.7	23.5	1030
12×3×1.5	0.7	1.9	30.0	1475
16×3×1.5	0.7	2.0	33.6	1925
19×3×1.5	0.7	2.1	35.7	2210
24×3×1.5	0.7	2.4	41.7	2855
1×2×2.5	0.7	1.1	10.5	190
1×3×2.5	0.7	1.3	11.0	220