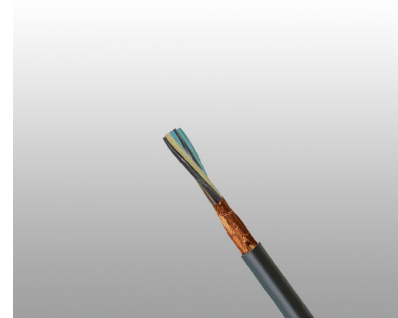




## S12 RU(c) 250 V

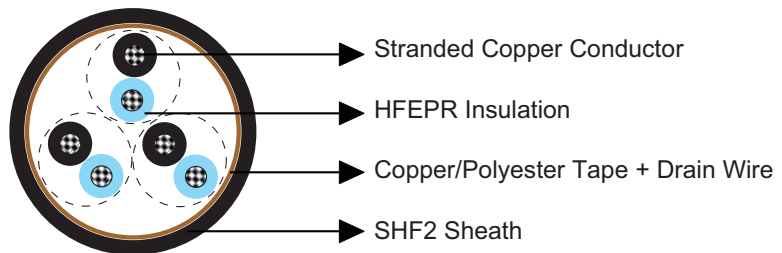
### Applications

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 | mm <sup>2</sup> | 0.75 | 1.0  | 1.5  |
| Nominal Conductor Diameter | mm              | 1.1  | 1.3  | 1.6  |
| Maximum Resistant@20°C     | 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        | $\mu\text{H}/\Omega$ | 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°C ~ +90°C

## Dimensions and Weight

| Construction<br>No. of elements×No. of cores in<br>element×Cross section(mm <sup>2</sup> ) | Nominal Insulation<br>Thickness<br>mm | Nominal Sheath<br>Thickness<br>mm | Nominal Overall<br>Diameter<br>mm | Nominal Weight<br>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                     |
| 24×2×1.0   | 0.6                                   | 1.8                               | 25.9                              | 1050                    |



# Caledonian

Any inquiries, please feel free to contact  
[enquiry@shipboard-cables.com](mailto:enquiry@shipboard-cables.com) or [sales@shipboard-cables.com](mailto:sales@shipboard-cables.com)



| Construction<br>No. of elements×No. of cores in<br>element×Cross section(mm <sup>2</sup> ) | Nominal Insulation<br>Thickness<br>mm | Nominal Sheath<br>Thickness<br>mm | Nominal Overall<br>Diameter<br>mm | Nominal Weight<br>kg/km |
|--|---------------------------------------|-----------------------------------|-----------------------------------|-------------------------|
| 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                    |

