# FireKab RE-2G(St)HSWAH...CI




## Areas of Use

Used for communication and instrumentation purposes in industries like oil exploration, cement, paper, steel, power generation as well as in intrinsically safe systems in hazardous areas like petrochemical plants and thermal power plants to monitor measuring equipment in process automation applications. HFFR types are less flammable in case of fire, mostly self-extinguishing, have low smoke density and they do not emit poisonous and corrosive gasses during a fire. Armoured types provide mechanical strength and protect the cable core against outer mechanical effects. Also, min.180 minutes of circuit integrity under fire conditions is achieved by its special design.

## Cable Construction

| | |
|---|---|
| **Conductor** | Stranded Annealed Copper (IEC/EN 60228, Class 2) |
| **Insulation** | Silicon Rubber (EN 50363-1, BS 7655 EI2) |
| **Core Colors** | Multicore: White Numbered Pair: Black / White, Numbered Triples: Balck / White / Red, Numbered Quad: Black / White / Red / Blue, Numbered |
| **Lay-up** | Cores / pairs / triples / quads are stranded in layers |
| **Separator** | PET Foil |
| **Overall Screen** | Al-PET Foil (with 7x0.3 mm Tinned Copper Drain Wire) |
| **Inner Sheath** | Halogen Free Flame Retardant Compound (HFFR/LSZH/LSOH/FRNC) (EN 50290-2-27) |
| **Armour** | Round Galvanized Steel Wire (Min. Diameter 0.90 mm ±0.02 mm) |
| **Outer Sheath** | Halogen free Flame Retardant Compound (HFFR/LSZH/LSOH/FRNC) (EN 50290-2-27), RAL 2004 - Orange, RAL 9005 - Black, RAL 5015 - Blue, (other colors open request) |
| **Reference Standards** | BS/EN 50288-7 |

## Technical Properties

| | |
|---|---|
| **Operating Voltage** | 500 V* |
| **Test Voltage** | Core - Core: 2000 V; Core - Screen: 1000 V |
| **Conductor Resistance** | 0.50 mm² - ≤36 Ω/km; 0.75 mm² - ≤24.5 Ω/km; 1.00 mm² - ≤18.1 Ω/km; 1.30 mm² - ≤14.2 Ω/km; 1.50 mm² - ≤12.1 Ω/km; 2.50 mm² - ≤7.41 Ω/km |
| **Insulation Resistance** | >300 M.Ωxkm |
| **Capacitance Unbalance (800 Hz)** | ≤500 pF/500m |
| **Capacitance (@800Hz)** | ≤95 nF/km (Capacitance values may increase by 20% up to 4 pairs) |
| **L/R Ratio** | 0.50 mm²..1.00 mm² - ≤25 µH/Ω; 1.30 mm²..1.50 mm² - ≤40 µH/Ω; 2.50 mm² - ≤60 µH/Ω |
| **Temperature Range** | Fixed: -40 °C .....+90 °C, Flexible: -5 °C .....+50 °C |
| **Flame Retardancy** | IEC/EN 60332-1, IEC/EN 60332-3-24 (CAT C) |
| **Fire Resistance** | IEC 60331-21 |
| **Smoke Density** | IEC/EN 61034-1 |
| **Amount of Halogen Acid Gas** | IEC/EN 60754-1 |
| **Corrosive Gases Measurement** | IEC/EN 60754-2 |
| **Oil Resistance** | IEC/EN 60811-404, ASTM No 2 oil 70 °C 4 hours |
| **Min. Bending Radius (Fixed)** | 12 x Cable Diameter |

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