Water Blocked S15 BFOU-HCF(i) 250 V

Applications

These cables are partially water blocked, fire resistant, flame retardant, low smoke and halogen free, used for emergency instrumentation, communication, control and alarm systems that need to be operational during a 1100°C hydrocarbon fire.

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

VG 95218 part 29



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.
- Filler: Water blocking fillers, if required.
- **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.
- HC-fire protection: Extruded thermoplastic fire protection compound.
- Taping: Lapped glass fibre tape.
- Outer Sheath 1: Flame retardant halogen-free thermoplastic compound, type SHF1, coloured grey (blue for intrinsically safe).
- Outer Sheath 2: Polyurethane for providing transversal water tightness, PE is optional, but can not meet low smoke standard.

Electrical Characteristics

Nominal Cross Section Area	mm²	1.5
Nominal Conductor Diameter	mm	1.6
Maximum Resistant@20°C	Ω/km	12.9
Mutual Capacitance	nF/km	100
Nominal Inductance@1KHz	MH/km	0.673
Operating Voltage	V	250

Mechanical and Thermal Properties

- Bending Radius: 20×OD (during installation); 12×OD (fixed installed)
- Temperature Range: -20°C ~ +90°C

Dimensions and Weight

Construction No. of elements×No. of cores in element×Cross section(mm²)	Nominal Insulation Thickness mm	Nominal Diameter Over Bedding mm	Nominal Diameter Over Inner Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×2×1.5	0.7	9.0	13.1	41.5±2	1974
2×2×1.5	0.7	13.0	16.8	46.5±2	2573
4×2×1.5	0.7	15.0	20.7	49.5±2	2972
8×2×1.5	0.7	21.0	26.4	56.0±2	3875
12×2×1.5	0.7	25.0	31.2	65.0±2	5460













Standard

Standard

Standard

Standard

Water Tightness VG 95218-29 Circuit Integrity IEC 60331-21







Low Corrosivity IEC60754-2



Low Smoke Emission IEC 61034-1&2



IEC60332-1



Reduced Fire Propagation IEC60332-3-22