

Instrumentation Cable

Zero Halogen & Flame Retardant

gen. to BS 5308 Part 2/IEC60502

Multi-Triple, PTFE-Insulation, Individual & Collective Screen, Armour, LSZH-Sheath

600/1000 V

RE-5Y(St)HSAH TiMF

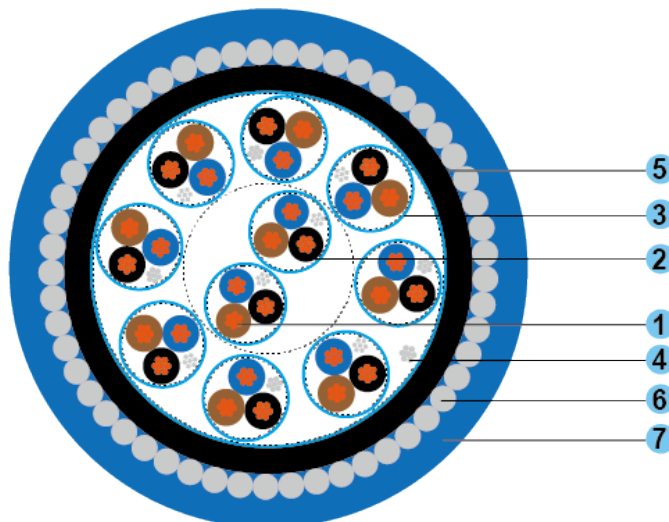
Application

For transmission of analogue and digital signals in instrument and control systems; use in zone 1 and zone 2 group II classified areas (IEC 60079 part 14). Not allowed for direct connection to low impedance source, e.g. the public mains electricity supply.

Recommended for direct burial acc. to national regulations. For indoor and outdoor installation in dry and wet locations on racks, in conduits.

PTFE Insulated wire temperature range: -40 °C to +260 °C

Construction



- 1 **Conductor:** Nickel plated copper wire 1.5mm² stranded to IEC60228.
- 2 **Insulation:** PTFE. Three cores twisted into triple.
Colour code: Brown / Black / Blue; with numbered polyester tape under separator tape of the triple screen
- 3 **Triple Individual screen:** 0.05mm aluminium / polyester tape over tinned copper drain wire, 0.5 mm²(7/0.3mm) wrapped over each triple with 25% overlap with 100% coverage .
Overall Wrapping: at least 1 layer of plastic tape
- 4 **Collective screen:** 0.05mm aluminium / polyester tape over tinned copper drain wire, 0.5 mm²(7/0.3mm) wrapped over all the triples with 25% overlap with 100% coverage .
- 5 **Bedding:** Zero halogen flame retardant compound LSZH, black
- 6 **Armour:** Galvanized round steel wires to IEC10244-2
- 7 **Outer sheath:** Zero halogen flame retardant compound LSZH, Color: Blue

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Technical Data

Temperature range: -40°C up to +260°C

Min. bending radius: 15 x cable-Ø

Flame retardancy: IEC 60332-1-2; BS EN 60332-1-2

Flame propagation: IEC 60332-3-22(CatA); BS EN 60332-3-22

Smoke density: IEC 61034-1&2; EN 61034 -1&2

Degree of acidity of gases: less than 0.5%.IEC 60754-1; EN 50267-2-1;

Outer sheath:

Limiting Oxygen Index (LOI): min. 35% (IEC 60332-3 annex B)

Temperature index (TI): min. 250°C (ASTM-D-2863)

Electrical data at 20°C

	Character	Unit	Values
Conductor size	nom.	mm ²	1.5
Conductor resistance	max.	Ω/km	12.6
Insulation resistance	min.	MΩ x km	100
Capacitance core to core @ 1 kHz	max.	pF/m	250
Capacitance between core and shielded @ 1 kHz	max.	pF/m	400
L/R (ratio)	max.	μH/Ω	40
Test voltage		V	3500
Rated voltage U ₀ / U		V	600/1000

Dimension data

No. of Triples	Stranding/ Diameter	Nom. Insulation thickness	Nom. Bedding Thickness	Dia. Over Bedding Approx.	Nom. Armour Wire Dia.	Nom. Outer sheath thickness	Approx. Overall Diameter	Weight approx.
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)
6	7/0.52mm	0.6	0.3	18.0	1.6	2.0	26.2	1620