

FIRECEL SR 125H

Multipare Overall Screen/Silicone Insulation



NOT ARMoured

SR/OS/LSZH

ARMoured

SR/OS/LSZH/SWA/LSZH

APPLICATIONS

Firecel SR 125H are designed, manufactured and tested as data transmission cables for emergency services. These are used for data and voice transmission when high frequency signal has to be assured also in the event of a fire.

OPERATING TEMPERATURE

-40°C to +90°C (for insulated conductors only: max 200°C).

MINIMUM BENDING RADIUS

Not armoured type

12 times the outer diameter.

Armoured type

15 times the outer diameter.

CABLE CONSTRUCTION

Conductors

Plain annealed electrolytic copper wire according to EN 60228 class 1(U) solid or class 2 (R) stranded.

Insulation

High performance fire resistant silicone rubber.

Twisting

The insulated cores shall be twisted in pairs for a good reduction of the electromagnetic noise.

Cabling

The pairs are cabled with suitable non hygroscopic fillers (when necessary) and wrapped with polyester tape if required.

Overall screen

Aluminium/polyester tape, coverage > 100%, aluminium in contact with tinned copper drain wire.

Armoured

Inner sheath: PE, LSZH thermoplastic material.

Armour: Single layer of galvanized steel wires (SWA).

Outer sheath

LSZH thermoplastic material.

APPLICABLE STANDARDS

Basic design BS 7629

Fire resistant IEC 60331-23

Flame retardant IEC 60332-1-2

Fire retardant IEC 60332-3-24 (cat. C)

Halogen free properties IEC 60754-1

Low smoke emission IEC 61034-2

SR 125H (300/500 V)

Cross section (mm ²)	UNARMoured		ARMoured		
	Outer diameter (mm)	Weight (kg/km)	Diameter under armour (mm)	Outer diameter (mm)	Weight (kg/km)
0,5 mm² solid	U-SR/OS/LSZH				
1x2x0,5	6,5	56	6,5	10,7	235
2x2x0,5	9,5	94	9,5	14,5	381
3x2x0,5	10,5	118	10,5	15,2	472
5x2x0,5	12,0	167	12,0	18,4	550
6x2x0,5	13,0	197	13,0	18,5	574
10x2x0,5	16,5	273	16,5	22,3	760
15x2x0,5	20,5	410	20,5	24,2	941
20x2x0,5	22,6	520	22,6	27,1	1146
1 mm² stranded	R-SR/OS/LSZH				
1x2x1	7,4	77	7,4	11,3	265
2x2x1	10,6	130	10,6	15,9	452
3x2x1	11,2	196	11,2	16,2	528
5x2x1	13,7	245	13,7	20,1	665
6x2x1	14,8	300	14,8	20,3	695
10x2x1	18,9	378	18,9	23,8	937
15x2x1	23,2	567	23,2	27,8	1368
20x2x1	26,2	831	26,2	30,9	1650
1,5 mm² stranded	R-SR/OS/LSZH				
1x2x1,5	8,7	100	8,7	12,1	305
2x2x1,5	10,2	188	10,2	17,2	525
3x2x1,5	12,9	223	12,9	16,2	614
5x2x1,5	16,7	346	16,7	22,1	794
6x2x1,5	17,5	426	17,5	22,3	845
10x2x1,5	23,4	541	23,4	27,0	1315
15x2x1,5	28,9	892	28,9	30,7	1691
20x2x1,5	32,5	1182	32,5	34,4	2075

ELECTRICAL CHARACTERISTICS

Cross section (mm ²)	0,5	1,0	1,5
Capacitance (pF/m)	90	100	110
L/R (μH/Ohm)	25	25	40

approximate values