



FireFighter® 430Series

LSZH Multi-Pair 22awg (RS)TIA-485

Control Cables 600V



Application

A range of 22awg low capacitance cables with a high level of screening. Provides interference free, high speed data transmission suitable for a range of RS485 applications including automation systems such as Modbus , BACnet MS/TP,HART and CanOpen systems. These low capacitance cables have enhanced noise protection providing the highest performance under harsh environments and use FireFighter® Low Smoke Zero Halogen performance materials.

Cable Design

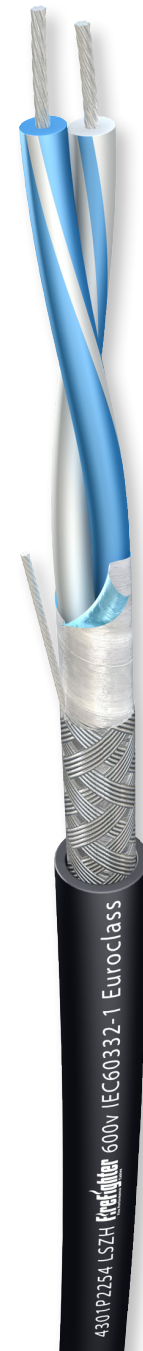
Conductor	Stranded tinned copper wire (22awg)
Insulation	Polyethylene (PE)
No. of Pairs	1, 1.5, 2, 3 or 4 - see colour chart on page 2
Overall Shield	Overall Aluminium/polyester tape
Drain Wire	Stranded tinned copper wire
Overall Braid Shield	Tinned copper wire braid, 65% coverage
Outer Jacket	LSZH FireFighter® SHF-1

Characteristics

Colour	Black
Rated Voltage	600 V
Temperature Range	-20 °C up to +90 °C
UV Resistant	acc. ISO 4892-2/A

Fire Behaviour

- Flame Retardant acc. to IEC 60332-1
- Fire Retardant acc. to IEC60332-3-24
- Halogen Free acc. to IEC 60754
- Smoke Emission acc. to IEC 61034
- Euroclass : Dca,s1,d2,a1





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Specification

Part Number	Formation N° x Pair x AWG	Nom. Ø mm ± 10%	Nom. Shield DC Resistance Ω/km	Weight kg/km
4301P2254-01	1 x 2 x 22 awg	7,0	9,5	65
4301.5P2254-01 *	1 x 2 x 22 awg + 1 x 22 awg	7,25	9,2	78
4302P2254-01	2 x 2 x 22 awg	8,25	4,6	108
4303P2254-01	3 x 2 x 22 awg	10,0	4,6	126
4304P2254-01	4 x 2 x 22 awg	11,30	3,6	143

*All conductors are under the braid shield, the pair is under the aluminium/polyester tape

Electrical Characteristics

Nom. Capacitance (cond./cond.) pF/m	Nom. Capacitance (cond./cond./scrn) pF/m	Nom. Conductor DC Resistance Ω/km	Nom. Velocity of Propogtion %	Nom. Impedance Ω
36,1	65,6	48,2	78	120

Colour Code Chart

Pair	Colour
1	White/Blue Paired With Blue/White
1.5	White/Orange + Blue
2	White/Orange Paired With Orange/White
3	White/Green Paired With Green/White
4	White/Brown Paired With Brown/White

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