



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

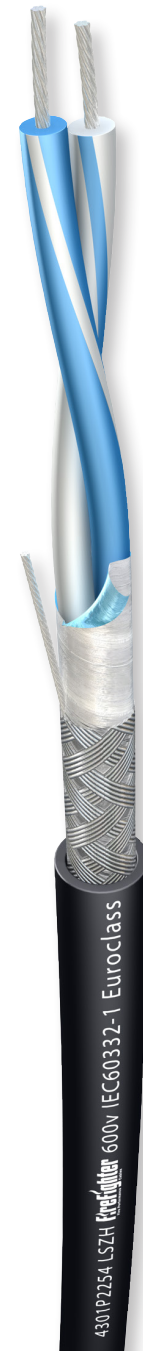
Conductor	Stranded tinned copper wire (22awg)
Insulation	Polyethylene (PE)
No. of Pairs	1, 1.5, 2, 3 or 4 - see colour chart on page 2
Overall Shield	Overall Aluminium/polyester tape
Drain Wire	Stranded tinned copper wire
Overall Braid Shield	Tinned copper wire braid, 65% coverage
Outer Jacket	LSZH FireFighter®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





FireFighter® 430Series

LSZH Multi-Pair 22awg (RS)TIA-485 Control Cables 600V

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	Max. Conductor DC Resistance Ω/km	Nom. Velocity of Propogtion %	Nom. Impedance Ω
36,1	65,6	53,86	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

Belcom Cables Ltd. ("Belcom") reserves the right to make changes to the product described in this specification without prior notice. Belcom does not assume any liability which may occur due to the use of the specification described herein. Drawings are not to scale unless otherwise specified and are provided for general and informational purposes only. All values represented in this specification should be used as a guide only and exact product details can be confirmed at point of enquiry.