

HART

LSZH 430Series DataGuard® (SWA) Lighting Control Bus for RS-485 Applications



Cable Design

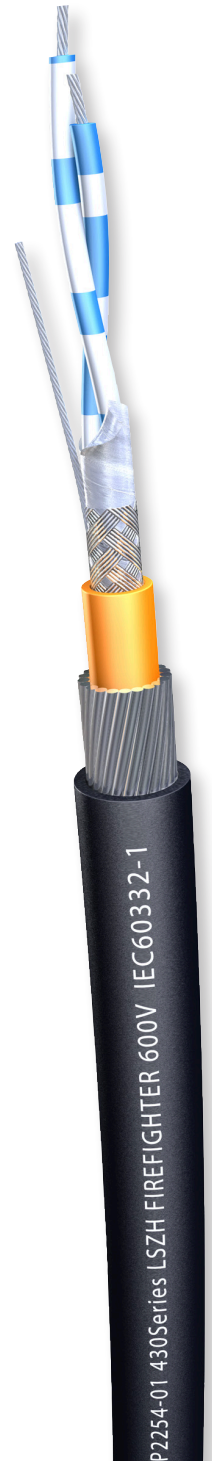
Conductor	Stranded tinned copper wire (22awg)
Insulation	Polyethylene (PE)
No. of Pairs	1, 1.5, 2, 3 or 4 - see colour chart on page 2
Overall Shield	Overall Aluminium/polyester tape
Drain Wire	Stranded tinned copper wire
Overall Braid Shield	Tinned copper wire braid, 65% coverage
Inner Jacket	LSZH FireFighter®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

Fire Behaviour

- Flame Retardant acc. to IEC 60332-1
- Halogen Free acc. to IEC 60754
- Smoke Emission acc. to IEC 61034

Colour Code Chart

Pair	Colour
1	WHITE/blue - BLUE/white
1.5	WHITE/blue - BLUE/white + Orange
2	WHITE/orange - ORANGE/white
3	WHITE/green - GREEN/white
4	WHITE/brown - BROWN/white



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Specification

Part Number	Formation	Nom. Inner Jacket Ø	Nom. Inner Jacket Ø	Weight
	No. of Pairs	mm ± 10 %	mm ± 10 %	
144301P2254-01	1 x 2 x 22 awg	7,0	11,9	355
144301.5P2254-01 *	1 x 2 x 22 awg + 1 x 22 awg	7,25	12,7	368
144302P2254-01	2 x 2 x 22 awg	9,0	13,5	398
144303P2254-01	3 x 2 x 22 awg	10,0	14,6	416
144304P2254-01	4 x 2 x 22 awg	11,30	16,0	433

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

Electrical Characteristics

Part Number	Nom. Capacitance (cond./cond.)	Nom. Capacitance (cond./scrn)	Nom. Conductor DC Resistance	Nom. Shield DC Resistance	Nom. Velocity of Propogtion	Nom. Impedance
	pF/m	pF/m	Ω/km	Ω/km	%	Ω
144301P2254-01	36,1	65,6	48,2	9,5	78	120
144301.5P2254-01 *	36,1	65,6	48,2	9,2	78	120
144302P2254-01	36,1	65,6	48,2	4,6	78	120
144303P2254-01	36,1	65,6	48,2	4,6	78	120
144304P2254-01	36,1	65,6	48,2	3,6	78	120

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