

DataGuard® (SWA)

LSZH FireFighter® 440Series Multi-Pair
24awg RS-485 Low Capacitance 600V



Application

A range of 24awg multi-pair low capacitance cables with a high level of screening. Provides interference free, high speed data transmission suitable for RS485 applications. These cables utilise DataGuard® armoring and FireFighter® Low Smoke Zero Halogen performance materials.

Cable Design

Conductor	Stranded tinned copper wire (24awg)
Insulation	see specification table
No. of Pairs	1, 2, 3, 4 or 8 - Colour coded to Chart 5
Overall Shield	Overall Aluminium/polyester tape
Drain Wire	Stranded tinned copper wire
Overall Braid Shield	Tinned copper wire braid, ≈ 90% coverage
Inner Jacket	LSZH FireFighter® SHF-1, Grey
Armour	DataGuard® Steel Wire Armour (DSWA)
Outer Jacket	LSZH FireFighter®, Black



Characteristics

- Indoor/Outdoor applications
- Mechanical protection
- Rodent Protection
- UV-Resistant
- 600 V rated
- Temperature Range : -20°C up to +90°C

Fire Behaviour

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

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Specification

Part Number	Formation No. of Pairs	Insulation	Insulation Diameter mm ± 10 %	Nom. Inner Jacket Ø mm ± 10 %	Nom. Outer Jacket Ø mm ± 10 %	Weight kg/km
144401P2454	1 x 2 x 24 awg	PE	1,62	6,10	10,70	336
144402P2454	2 x 2 x 24 awg	PE	1,62	8,65	13,25	350
144403P2454	3 x 2 x 24 awg	PE	1,62	9,15	13,75	358
144404P2454	4 x 2 x 24 awg	PE	1,62	9,91	14,51	367
144408P2454	8 x 2 x 24 awg	Foam PE	1,15	9,0	13,70	406

Electrical Characteristics

Nom. Capacitance (cond./cond.) pF/m	Nom. Capacitance (cond./cond./ screen) pF/m	Electrical Resistance Ω/km	Nom. Velocity of Propagation %	Nom. Inductance μH/m	Nom. Impedance Ω
42	75,5	82	66	0,56	120