

# DataGuard® (SWA)

LSZH FireFighter® 440Series 124 Ohm

Twinax & Data Cable 600 V



## Application

Twin-Axial cables were originally developed for I/O switching and process control applications and are now widely used in commercial applications for building management systems. These cables utilise DataGuard® armoring and FireFighter® Low Smoke Zero Halogen performance materials.

## Cable Design

Conductor	Solid bare copper wire (16AWG)
Insulation	Foam Polyethylene (PE)
No. of Pairs	1 (1x2x16AWG + Fillers) - Blue / White
Overall Shield	Overall Aluminium/polyester tape
Overall Braid Shield	Tinned copper wire braid
Inner Jacket	LSZH FireFighter®, Black
Armour	DataGuard® Steel Wire Armour (DSWA)
Outer Jacket	LSZH FireFighter®, Black

## Characteristics

- Indoor/Outdoor applications
- Mechanical protection
- Rodent Protection
- Direct Burial
- 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	Nom. Inner Jacket Ø mm	Nom. Outer Jacket Ø mm	Weight kg/km
144402C16S54	1 x 2 x 16 awg	11,80	16,50 ± 1,0	613

## Electrical Characteristics

Capacitance (core/core) (nom.)	35,7	pF/m
Capacitance (core/core/screen) (nom.)	63,3	pF/m
Conductor DC Resistance (nom.)	13,8	Ohm/km
Shield DC Resistance (nom.)	4,3	Ohm/km
Velocity of Propagation (nom.)	78	%
Impedance (nom.)	124	Ohm

## Attenuation

Frequency [MHz]	1	10	50	100	200	400
Attenuation [dB/100m]	0,6	2,3	5,9	9,5	13,5	20,3

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