

ControlNet

Quad Shield Cable DataGuard® (SWA) LSZH FireFighter®

Cable Design

Conductor	Solid bare copper wire (18awg)	Ø 1,0 mm
Dielectric	Foam Polyethylene (PE)	Ø 4,60 mm
Quad Shield	1 - Aluminium/polyester/Aluminium tape	Ø 4,70 mm
	2 - Aluminium braid outer conductor 57% coverage	Ø 5,35 mm
	3 - Aluminium/polyester/Aluminium tape	Ø 5,45 mm
	4 - Aluminium braid outer conductor 40% coverage	Ø 6,10 mm
Inner Jacket	Polyvinylchloride (PVC), Black	Ø 7,60 ± 0,20 mm
Armour	DataGuard® Steel Wire Armour (SWA)	
Outer Jacket	LSZH FireFighter®, Black	Ø 11,40 ± 0,40 mm

Characteristics

- Indoor/Outdoor applications
- Mechanical protection
- Rodent Protection
- UV-Stable and colourfast
- Flame retardant acc. to IEC 60332-3-24
- Halogen Free acc. to IEC 60754-1/2
- Smoke density acc. to IEC 61034-1/2

Specification

Part Number	Type
14402186044	RG 6/U Type 18awg quad shield cable for ControlNet applications in harsh environments DataGuard® (SWA) (LSZH FireFighter®)



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Electrical Data @ 20°C

Impedance		75 ± 3	Ohm
Capacitance		53	pF/m
Velocity ratio		84	%
Screening effectiveness	100-900 MHz	> 95	dB
Inner conductor resistance		22,5	Ohm/km
Outer conductor resistance		10,5	Ohm/km

Attenuation

Frequency (MHz)	dB/100m
50	4,4
230	9,6
470	13,9
860	19,5
1000	21,3
1350	25,0
1500	27,0
1750	29,1
2150	32,8
2400	35,2
3000	40,5

Structural Return Loss

Frequency (MHz)	dB
30 - 470	> 33
470 - 860	> 31
860 - 2150	> 25
2150 - 3000	> 22

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