

DeviceNet™ THICK Cable LSZH FireFighter® DataGuard® (DSWA)

Element 1 *Data Pair 02YS 1,38/3,8*

Conductor	Stranded tinned copper wire (19x0,25mm)	Ø 1,30 mm
Insulation	Foamed Polyethylene (PE) with skin	Ø 3,80 mm
Core identification	Blue / White cores	
Screen	Alulamine foil overlapped, applied longitudinally	
coverage	100%	

Element 2 *Power Pair LI2Y*

Conductor	Stranded tinned copper wire (19x0,34mm)	Ø 1,70 mm
Insulation	Polyethylene (PE)	Ø 2,70 mm
Core identification	Red / Black cores	
Screen	Alulamine foil overlapped, applied longitudinally	
coverage	100%	

Cable Design

Central Element	Stranded tinned copper wire (19x0,24mm)	
Cable Core	02YS 1,3/3,8 + LI2Y 1,7/2,7	
Filler	Fillers in gaps	
Shield	Tinned copper wire braid, 0,13 mm	
coverage	70%	
Inner Jacket	LSZH FireFighter®	Ø 12,2 ± 0,3 mm
wall thickness	1,80 mm	
Armour	DataGuard® Steel Wire Armour (DSWA)	
Outer Jacket	LSZH FireFighter®	Ø 17,20 ± 0,4 mm
wall thickness	1,00 mm (approx.)	



Electrical Data @ 20° C

Conductor Resistance	to pair a)	≤	22,6	0hm/km
Conductor Resistance	to pair b)	≤	11,7	0hm/km
Capacitance (1 kHz wire/wire)	to pair a)	≈	39,8	nF/km
Characteristic Impedance (1 MHz)	to pair a)		120±12	0hm
Signal Run Time	to pair a)	≤	4,46	ns/m
Capacity Unbalanced to ground	to pair a)	≤	3937	pF/km
Operating Voltage (peak)		≤	300	V
Insulation Resistance		≥	200	M0hm*km
Test Voltage (wire/wire/screen 50Hz)		=	2000	V
Attenuation	125 MHz		0,42	dB/100m
	500 MHz		0,81	dB/100m
	1000 MHz		1,31	dB/100m

Mechanical & Thermal Characteristics

Temperature Range (permissible)	-25° C up to +80° C
Weight	479 kg/km (approx.)
Flame retardant	acc. IEC 60332-1-2

Specification

Part Number	Type
14L45467-F21-W6	Armoured DeviceNet Thick cable LSZH FireFighter® DataGuard® (DSWA) 2x18awg + 2x15awg

