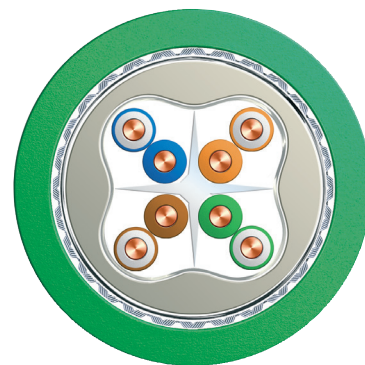


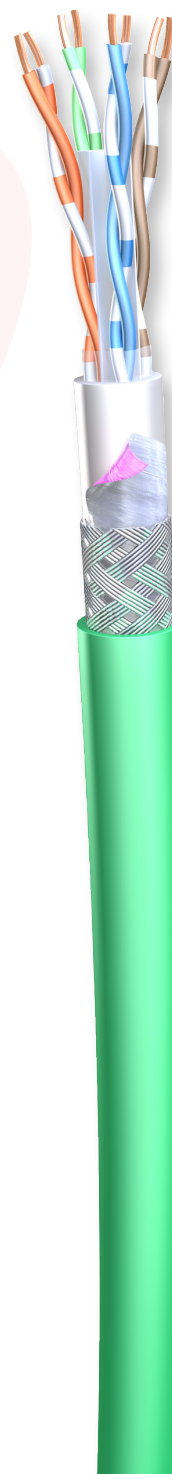
Industrial Ethernet

Cat 6 ES for Fixed Installation (LSZH)



Cable Design

Wire		
Conductor	Solid bare copper wire (24awg)	Ø 0,51 mm
Insulation	Polyethylene (PE)	Ø 1,00 mm
Pair		
Identification	2 insulated wires twisted to a pair (WHBU/BU-WHOG/OG-WHGN/GN-WHBN/BN)	
Core		
1° Layer	4 pairs in separating element	
Tape	Plastic tape overlapped	
Easystrip Jacket	Soft Thermoplastic copolymer	Ø 6,10 mm
Screen	Alulaminare foil overlapped	
Braid	Tinned copper wire braid, 85% coverage	Ø 6,60 mm
Outer Jacket	LSZH FireFighter®	Ø 8,0 ± 0,20 mm



Specification

Part Number	Type
L45467-J15-B26	Industrial Ethernet EasyStrip Cat6 for Fixed Installation. LSZH. 4x2x24AWG1.

Mechanical & Thermal Characteristics

Flame retardant	IEC 60332-1-2
Oil resistant	acc. to IEC 60811-2-1 (4 hours / 70 °C)
Permissible temperature range	-25 °C up to +80 °C
Weight (approx.)	80 kg/km

Industrial Ethernet

Cat 6 ES for Fixed Installation (LSZH)

Electrical Data @ 20°C

Loop resistance		≤	190	Ohm/km
Signal run time		≤	5,13	ns/m
Insulation resistance		≥	500	MOhm*km
Operating Voltage (peak)		≤	100	V
Characteristic Impedance	100	MHz	100±5	Ohm
Surface Transfer Impedance of screen	up to 100	MHz	≤ 20	mOhm/m
Time delay skew (pair to pair)	All Pairs	≤	45	ns/100m
Time delay skew (pair to pair)	WHGN/GN to WHOG/OG	≤	20	ns/100m
Time delay skew (pair to pair)	WHBN/BN to WHBU/BU	≤	20	ns/100m
Test Voltage (wire/wire/screen rms 50Hz min.)		=	700	V

Frequency (MHz)	1	4	10	16	20	31,25	62,5	100	155	200	250
Next (dB) ≥	66,0	65,3	59,3	56,2	54,8	51,9	47,4	44,3	41,4	39,8	38,3
PSNext (dB) ≥	64,0	63,3	57,3	54,2	52,8	49,9	45,4	42,3	39,4	37,8	36,3
ELFext (dB) ≥	66,0	58	50,0	45,9	44,0	40,1	34,1	30,0	26,2	24,0	22,0
PSELFext (dB) ≤	64,0	55,0	47,0	43,0	41,0	37,1	31,1	27,0	23,2	21,0	19,0
Attenuation (dB/100m)	2,1	4,0	6,3	7,9	8,8	11,1	16,0	20,7	26,5	30,6	35,0

Frequency (MHz)	4	8	10	16	20	31,25	62,5	100	155	200	250
Return Loss (dB)	23,1	24,5	25,0	25,0	25,0	23,6	21,5	20,1	18,8	18,0	17,3

The electrical requirements at max. 90m installed cable acc. to EN 50288-5-1.

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