

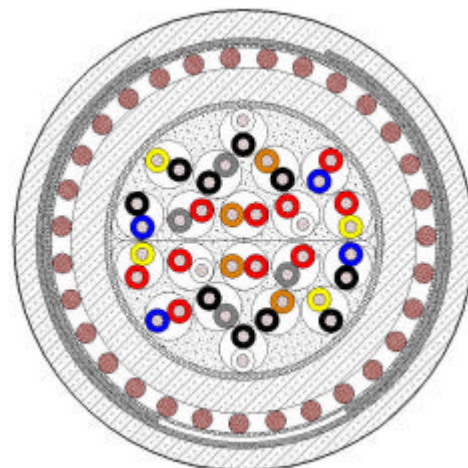


Lxx - 0.9 or 1.2 METI - 45P - B0.8 (AJ-02YSF2YABH n x 2 x 0.9 or 1.2)

Foam-Skin PE insulated long distance cable, filled with protection against inductive interference, LSZHFR outer sheath

**According to specification Jernbaneverket Nett from 20.09.2010
(based on IEC 60708 and Norsk Kabel MS 290. METE)**

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to technical progress.



Principle drawing
L20-0.9 METI-45P-B0.8

Application

Long distance cable, pair twisted, used for telecommunication and data transmission.

Colour Coding

Colour coding according to IEC 304

pairs 1 – 5	a-core: red	b-core: blue – white – yellow – grey – orange
pairs 6 – 10	a-core: black	b-core: blue – white – yellow – grey – orange
units 1 – 2 – 3 – – 10	blue – white – yellow – grey – orange – blue/black – white/black – yellow/black – grey/black – orange/black	

Construction

Lxx-0.9 or 1.2 METI - 45P - 0.8 (AJ-02YSF2YABH)	
Conductor	copper, solid, 0.9 or 1.2 mm, soft annealed
Insulation	foam-skin-PE (02YS)
Twisting	contains pairs in unit stranding (SZ -stranding)
Filling	interstices filled with petrol jelly
Cable core wrapping	one plastic water swell tape
Ripcord	One ripcord under the bedding
Bedding	PE (2Y), black
Screen	Aluminium wires at least 1.6 mm filled with filling compound and wrapped with a semi-conductive tape
Armouring	two layers of galvanized steel tape 0.8 mm (2B0.8)
Outer sheath	Low Smoke, Zero Halogen flame retardant sheath material, black



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Mechanical and Thermal Properties

Temperature range	during operation	- 40°C to + 60°C
	during installation	- 5°C to + 60°C
Min. admissible bending diameter		15 x outer cable diameter

Electrical Properties

at 20°C ± 5°C

	mm	0.9	1.2
Conductor diameter	mm	0.9	1.2
Conductor resistance (average/maximum)	O/km	= 29.0 / = 27.8	= 15.9 / = 15
Resistance unbalance	%	2	2
Insulation resistance	GOxkm	= 5	= 5
Mutual capacitance at 800 Hz	nF/km		
2 pairs (maximum value)		= 52	= 52
5 – 10 pairs (max. average/max. value)		= 45±3 / = 50	= 45±3 / = 50
= 20 pairs (max. average/max. value)		= 45±2 / = 49	= 45±2 / = 49
Capacitance unbalance at 800 Hz	nF/km		
2 pairs (maximum value)		= 800	= 800
5 – 10 pairs (maximum value)		= 300	= 300
= 20 pairs (maximum value)		= 100	= 100
Test voltage at 50 Hz 1 min			
conductor/conductor	V _{eff}	500	500
conductor/screen	V _{eff}	2000	2000
Attenuation at 1MHz	dB/km	= 9.8	= 9.8
ELFEXT within base unit 1 MHz (min.)	dB	= 42	= 42
NEXT within base unit 1 MHz (average)	dB	= 40	= 40
Impedance 1 MHz	O	110 ± 15%	110 ± 15%

Dimension	Outer diameter	Cable weight net	Standard supply length	Drum size flange -Ø	Transport weight gross	Copper content	Aluminium content	Reduction factor *)
	mm	kg/km	m	mm	kg/drum	kg/km	kg/km	
Lxx-0.9 METI - 45P - B0.8 (AJ-02YSF2YABH)								
10 x	27.0	1286	1000	K16	1640	120	146	0,10/0,15/0,20
20 x	33.0	1846	1000	K20	2540	240	260	
30 x	34.0	2095	1000	K20	2789	359	272	
50 x	40.0	2802	1000	K22	3716	599	334	
Lxx-1.2 METI - 45P - B0.8 (AJ-02YSF2YABH)								
10 x	31.0	1726	1000	K20	2421	218	237	0,10/0,15/0,20
20 x	37.0	2361	1000	K22	3056	435	300	
30 x	43.0	3031	1000	K24	3725	652	368	

*) sheath voltage 100/400/600 V/km