

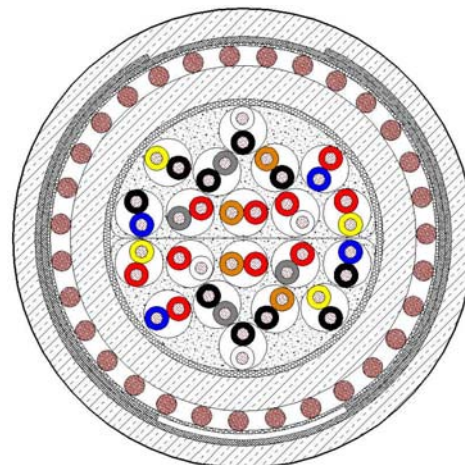


Lxx - 0.9 or 1.2 METE - 45P B0.8 (AJ-02YSF2YAB2Y n x 2 x 0.9 or 1.2)

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

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

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Principle drawing
L20-1.2 METE – P45 – 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 METE - 45P B0.8 (AJ-02YSF2YAB2Y)	
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	PE (2Y), black



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Mechanical and Thermal Properties

Temperature range	during operation	- 40°C to + 60°C
	during installation	- 15°C to + 60°C
	during storage	- 40°C to + 70°C
Min. admissible bending diameter		15 x outer cable diameter

Electrical Properties

at 20°C ± 5°C

Property	Unit	0.9	1.2
Conductor diameter	mm	0.9	1.2
Conductor resistance (average/maximum)	Ω/km	≤ 29.0 / ≤ 27.8	≤ 15.9 / ≤ 15
Resistance unbalance	%	2	2
Insulation resistance	GΩxkm	≥ 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 pair to pair at 800 Hz	nF/km		
2 pairs (maximum value)		≤ 800	≤ 800
5 – 10 pairs (maximum value)		≤ 300	≤ 300
≥ 20 pairs (maximum value)		≤ 100	≤ 100
pair to ground			
≥ 20 pairs (maximum value)		≤ 3000	≤ 3000
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	≤ 7
ELFEXT within base unit 1 MHz (min.)	dB	≥ 42	≥ 42
NEXT within base unit 1 MHz (average)	dB	≥ 40	≥ 40
Impedance 1 MHz	Ω	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 METE - 45P- B0.8 (AJ-02YSF2YAB2Y)								
10 x	27.0		1000	K16		120	146	0,10/0,15/0,20
20 x	33.0		1000	K20		240	260	
30 x	34.0		1000	K20		359	272	
50 x	40.0		1000	K22		599	334	
Lxx-1.2 METE - 45P- B0.8 (AJ-02YSF2YAB2Y)								
10 x	31.0		1000	K20		218	237	0,10/0,15/0,20
20 x	37.0		1000	K22		435	300	
30 x	43.0		1000	K24		652	368	
40 x	46.0		1400	K26		869		

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