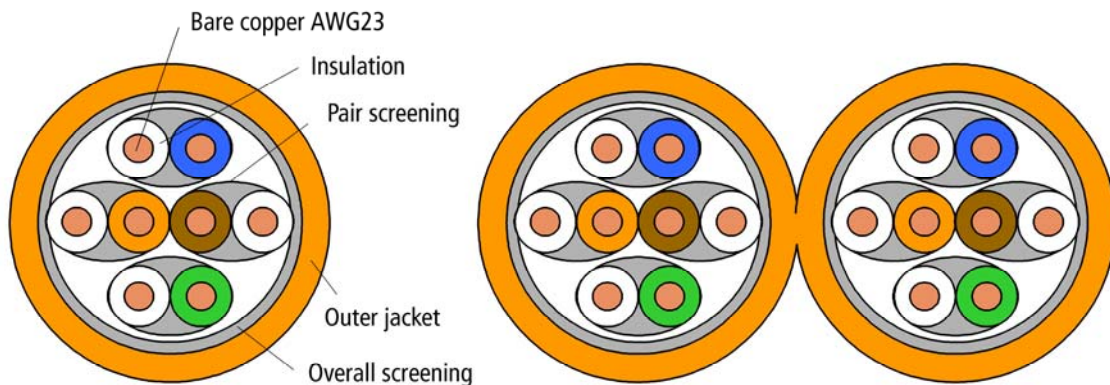


L02002A0120 L02002A0121 Solid Cable	AMJ 900 S/FTP 4x2xAWG23/1 FRNC AMJ 900 S/FTP 2x(4x2xAWG23/1) FRNC	Cat.7
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Application	Primary (Campus), Secondary (Riser), Tertiary (Horizontal) IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T IEEE 802.5 16 MB ; ISDN ; TPDDI ; ATM
Standards	EIA/TIA 568-B; ISO/IEC 11801-2; IEC 61156-5; EN 50173; EN5288-4-1
Fire rating FRNC:	IEC 60332-1; IEC 60754-2; IEC 61034

Construction

Conductor	Bare copper wire Ø 0.56 mm (AWG23)
Insulation	Foam skin polyethylene, Ø 1.35mm
Twisting	2 cores to the pair
Cable lay up	4 pairs (PIMF)
Pair screening	Aluminum laminated plastic foil
Overall screening	Copper braid, tinned (approx. 40% coverage)
Outer jacket	FRNC, RAL 7035
Cable marking L02002A0120	Telegärtner AMJ 900 S/FTP 4x2xAWG23/1 FRNC Cat.7 ISO/IEC 11801 "charge number" "meter marking"
Cable marking L02002A0121	Telegärtner AMJ 900 S/FTP 2x(4x2xAWG23/1) FRNC Cat.7 ISO/IEC 11801 "charge number" "meter marking"

Mechanical Properties

Bending radius	≥40 mm without load ≥ 80 mm with load
Temperature range	during operation: -20°C up to + 60°C; during installation: 0°C up to + 50°C

Electrical Properties (at 20°C ± 5°C)

DC loop resistance	≤ 165 Ω / km
Resistance unbalance	≤ 2%
Insulation resistance (500 V)	≥ 2000 MΩ / Km
Capacitance at 800 Hz	nom. 43 nf / km
Capacitance unbalance	

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(pair to ground)	≤ 1500 pf / km			
Characteristic impedance				
(1 - 100 MHz)	(100 ± 15) Ω			
(100 - 250 MHz)	(100 ± 18) Ω			
(250-600 MHz)	(100 ± 25) Ω			
Nominal velocity of propagation	ca. 79 %			
Propagation delay	≤ 427 ns/ 100m			
Delay skew	≤ 12 ns/100m			
Test voltage (DC, 1 min)	1000 V			
Core/Core and core/Screen				
Screening characteristics	1 MHz	10 MHz	30 MHz	100 MHz
Transfer impedance (mΩ/m)	≤ 20	≤ 30	≤ 40	≤ 200

Nominal transmission characteristics acc. to Cat.7 (at 20°C)

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1	1,8	100	97	98	95	105	105	-
4	3,4	100	97	97	94	105	102	27
10	5,4	100	97	95	92	97	94	30
16	6,8	100	97	93	90	93	90	30
20	7,7	100	97	92	89	91	88	30
31.2	9,6	100	97	90	87	87	84	30
62.5	13,7	100	97	86	83	81	78	30
100	17,4	100	97	83	80	77	74	30
125	19,5	95	92	75	72	75	72	26
155,5	21,9	94	91	72	69	73	70	26
175	23,3	93	90	70	67	72	69	25
200	25,0	92	89	67	64	71	68	25
250	28,1	90	87	62	59	69	66	24
300	30,9	89	86	58	55	67	64	24
450	38,3	87	84	48	45	64	61	23
600	44,8	85	82	40	37	61	58	22
750	52,0	83	80	31	28	59	56	21
900	59,4	82	79	23	20	58	55	20

Parts Number	Standard designation	Scope of delivery	Outer diameter mm	Weight kg/km	Copper content	Fire load		Tensile force N
						MJ/km	kWh/m	
L02002A0120	J-02YSCH 4x2x0.56 PiMF	1000m one-way drum	7,0	65	26	590	0,170	110
L02002A0121	J-02YSCH 2x(4x2x0.56) PiMF	500m one-way drum	7,2/15,0	132	52	1190	0,345	220