

Cat. 7 PiMF 1200 Cable

1499101-X, 1711003-1

tyco / Electronics



Product facts

Shielded Category 7, exceeding Cat. 7 requirements of:

ISO/IEC 11801 2nd edition

IEC 61156-7

EN 50173-1 2nd edition

EN 50288-4-1

PiMF (Pairs in Metal Foil) cable construction

Available in simplex and duplex construction

Low Smoke Fire Retardant Zero Halogen sheath, compliant to

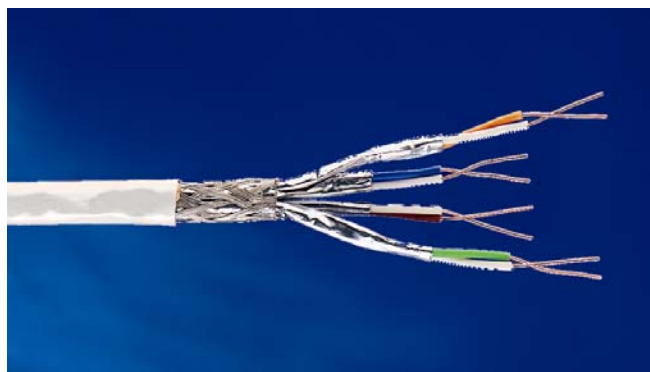
IEC 60332-3 C (Fire rating)

IEC 60754-1 (Toxicity)

IEC 60754-2 (Acid gas)

IEC 61034-2 (Smoke density)

AWG 22 solid wires



Part numbers

Sheathing	AWG	Type	OD	Packaging	Part number
LSFRZH	22	Simplex	8.1 mm	1000 m/reel	0-1499101-1
LSFRZH	22	Simplex	8.1 mm	500 m/reel	0-1499101-2
LSFRZH	22	Duplex	8.1 x 16.5 mm	500 m/reel	0-1711003-1

Physical characteristics

Materials	
Conductor	Ø 0.64 mm bare copper (AWG 22)
Insulation	Ø 1.50 mm foamed PE
Pair screen	Alu-polyester foil
Cable screen	Tinned copper braid
Cable sheath	LSFRZH (IEC 60332-3 class C)
Dimensions and weight	
Cable diameter simplex	8.1 mm
Cable diameter duplex	8.1 x 16.5 mm
Cable weight simplex	76 kg/km
Cable weight duplex	150 kg/km
Mechanical characteristics	
Bending radius during installation	≥ 8 x OD
Bending radius after installation	≥ 4 x OD
Tension during installation (simplex)	≤ 100 N
Tension during installation (duplex)	≤ 200 N
Environmental characteristics	
Operating temperature	-20 °C to +60 °C
Installation temperature	0 °C to +50 °C
Fire rating	IEC 60332-3 class C
Combustion energy simplex	0.65 MJ/m
Combustion energy duplex	1.30 MJ/m

Electrical characteristics

Impedance up to 100 MHz	100 ± 5 Ω
NVP	75 %
DC loop resistance	≤ 14.5 Ω / 100 m
Mutual capacitance	44 nF / km

Transmission characteristics

Common parameter	
Propagation delay @ 100 MHz	≤ 420 ns / 100 m
Delay skew @ 100 MHz	≤ 12 ns / 100 m

Freq. MHz	Att. Typ. dB	ACR Typ. dB	PSNEXT		PSELFEXT Min. dB	RL	
			Min. dB	Typ. dB		Min. dB	Typ. dB
4	3,5	89,5	82	90	79	23	35
10	5,4	87,6	82	90	71	25	40
16	6,8	86,2	82	90	67	25	40
20	7,6	85,4	82	90	65	25	40
31,25	9,6	83,4	82	90	61	25	40
62,5	13,7	79,3	82	90	55	25	40
100	17,5	75,5	82	90	51	23	40
125	19,7	73,3	82	90	49	22	38
200	25,0	68,0	82	90	45	21	35
250	27,0	66,0	82	90	43	20	35
300	30,0	63,0	82	90	41	20	30
600	43,0	45,0	75	85	35	20	27
800	49,0	37,0	75	83	32	19	25
1000	57,0	29,0	75	83	31	18	25
1200	63,0	22,0	75	82	29	17	22

AMP Netconnect Phone Numbers for Europe / Middle East / Africa:

Austria 43-1-90560-0
Denmark 45-70-15-52-00
Germany 49-6103-709-1547
Ireland 353-1-820-3000
Norway 47-66-77-88-99
South Africa 27-41-405-4500
Turkey 90-212-281-8181
Russia (Moscow) 7-095-926-5509

Belgium 32-16-352-300
Egypt 20-2-417-7647
Greece 30-210-9370-396
Italy 39-011-4012-111
Poland 48-22-5490-888
Spain 34-93-291-0330
Ukraine 38-044-238-6908
Russia (Petersburg) 7-812-118-8192

Bulgaria 359-2-971-2152
Finland 358-95-12-34-20
Hungary 36-1-289-1007
Lithuania 370-5-213-1402
Romania 40-21-311-3479
Sweden 46-8-5072-5000
U.A.E. 971-4-339-1199

Czech Rep. 420-5-41-162-112
France 33-1-3420-2122
India 91-80-8412433
Netherlands 31-73-6246-246
Slovenia 386-1561-3270
Switzerland 41-71-447-0447
U.K. 44-208-420-8140

For Middle East & African Countries not shown: 33-1-3420-2122