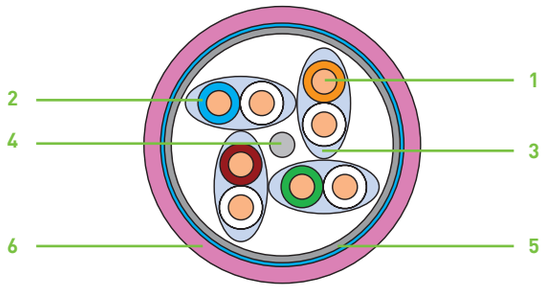
CATEGORY 6A CABLES - F/FTP - 555 MHZ

1. Core: Solid annealed copper AWG23
2. Insulation: Skin-Foam-Skin PE
3. Shielding 1: Individual Al/Pet foil – Coverage 110%
4. Drain wire: Solid tinned copper AWG24
5. Shielding 2: Al/Pet foil– Coverage 110%
6. Jacket: LSZH –Violet RAL 4001

F5554SH



FEATURES AND BENEFITS

- Exceed CAT6A standard requirements, tested up to 555 MHz
- Installed as component of a shielded Class Ea/CAT6A link, its high coupling attenuation level enables the Alien Cross Talk performance to be « guaranteed by construction ». No field test will be necessary for this parameter.
- Excellent protection against electromagnetic interferences thanks to double shielding
- Perfectly adapted to VoIP and PoE applications, including the future 802.3 at standard

NETWORK APPLICATIONS

- ISDN - VoIP
- TOKEN RING 4/16 Mbits - 100 VG-AnyLAN
- TP-PMD/TP-DDI - ATM 155, 622,1200 Mbits
- ETHERNET: 10 Base T, 100 Base Tx, 100 Base T4, 1000 Base T, 10 G Base T
- IEEE 802.3af – PoE (Power Over Ethernet)
- Future 802.3at – PoEP (Power over Ethernet Plus)

CABLING STANDARDS

- CABLE: - EIA/TIA 568-B2-10 CAT6A
  - IEC 61156-5 Ed2 CAT6A
  - EN 50288-10-1 (CAT6A)
- SYSTEM: - AD1.0 & AD2.0 ISO11801 CLASSE Ea
  - EIA/TIA 568-B.2-10 CAT6A
  - EN 50173-1 – CLASSE Ea

TECHNICAL CHARACTERISTICS

- Linear resistance (max.): 95 Ω / Km
- Characteristic impedance: (from 1 to 100 MHz) 100 +/- 15 Ω
  (from 100 to 250 MHz) 100 +/- 20 Ω
  (from 250 to 500 MHz) 100 +/- 25 Ω
- Mutual capacity (nom.): 45 pF / m
- Coupling attenuation (nom.): 70 dB
- Nominal velocity propagation: 79 %
- Operating temperature: - 20° C / + 70°C
- Bending radius (min.): 8 x Cable diameter

F (MHz)	INSERTION LOSS (dB/100 m)		NEXT (dB/100 m)		ACR-N (dB/100 m)		PSNEXT (dB/100 m)		ACR-F (dB/100 m)		PSACR-F (dB/100 m)		RETURN LOSS (dB/100 m)	
	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C
1	2.0	1.8	75.0	90	73.0	83	72.0	87	67.8	87	64.8	84	20.0	36
4	3.7	2.9	65.3	88	61.6	79	62.3	79	55.8	86	52.8	83	23.0	35
10	5.8	4.6	59.3	86	53.5	79	56.3	83	47.8	83	44.8	80	25.0	35
16	7.4	6.1	56.2	85	48.8	76	53.2	82	43.7	82	40.7	79	25.0	32
25	9.2	8.6	53.3	84	44.1	74	50.3	81	39.8	77	36.8	74	24.5	35
31.25	10.4	9.1	51.9	83	41.5	69	48.9	80	37.9	72	34.9	69	23.8	34
100	19.0	17.3	44.3	80	25.3	60	41.3	77	27.8	64	24.8	61	20.1	33
200	27.5	25.5	39.8	78	12.3	48	36.8	75	21.8	55	18.8	52	18.0	32
250	31.0	30.5	38.3	75	7.3	43	35.3	72	19.8	49	16.8	46	17.3	31
300	34.2	33.6	37.1	74	2.9	41	34.1	71	19.8	47	16.8	44	17.3	28
400	40.0	38.0	35.3	72	-4.7	34	32.3	69	19.8	46	16.8	43	17.3	24
500	45.3	42.5	33.8	72	-11.5	29	30.8	69	19.8	46	16.8	43	17.3	22
555	-	47.0	-	71	-	24	-	68	-	44		41	-	20

ORDERING INFORMATION

Part Number	Pairs	Core Section	Shielding	Jacket	Outer Diameter	Weight	Packaging
F5554SH	4	AWG 23	F/FTP	LSZH	7.4 mm	58 kg/km	500M - 1000M
F5558SH	2 x 4	AWG 23	F/FTP	LSZH	7.4 x 14.8 mm	116 kg/km	500M - 1000M