

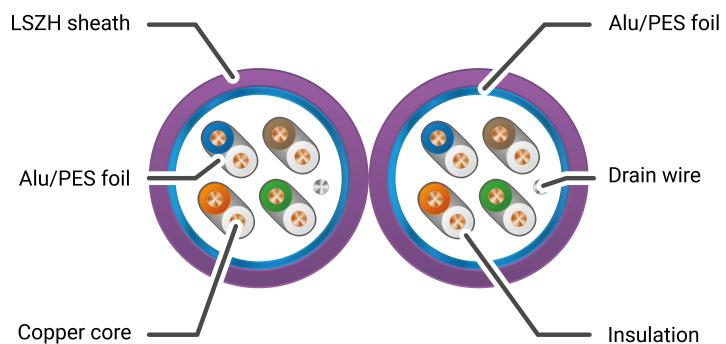
F5558SHC5

CAT6A F/FTP 2x4P 555 MHz LSZH Cca
Cable Drum of 500m



DESCRIPTION

The CAT6A F/FTP F555xSHC cable is used in shielded cabling solutions for horizontal or vertical configurations. Its performance exceeds the limits imposed by CAT6A cabling standards up to 555 MHz thanks to a tailored construction and F/FTP-type shielding quality. The combination of overall and individual (pair) shielding provides high electromagnetic immunity (coupling attenuation > 85 dB). Declared Cca s1,d1,a1 according to CPR EN 50575.



ADVANTAGES

- Tested up to 555 MHz
- Very high electromagnetic immunity
- Available in high CPR level : up to B2ca



CONSTRUCTION & TECHNICAL PERFORMANCE

Product Type	F555xSHCyy
Core gauge	AWG23
Core Composition	AWG23
Assembly type	Pairs
Shielding description	Aluminium polyester tape
Outer Sheath Material	LSZH
Color	Purple RAL 4001
Minimum diameter of the outer sheath (mm)	6.8
Ø SHEATH NOM (mm)	7.1
Ground drain presence	No
Shielding type	F/FTP
Insulation Color Code	Blue and White blue or White – Orange and White orange or White – Green and White green or White – Brown and White brown or White
Minimum Insulation Diameter (mm)	1,20
Maximum Insulation Diameter (mm)	1,26
Diameter over Insulation	1,23

ELECTRICAL CHARACTERISTICS

Loop resistance	154
Minimum insulation resistance	> 5000 MΩ x km
Linear electrical resistance (Ω/Km)	77
Service Voltage (V)	<250Vdc
Mutual Capacity	< 45 pF
Capacity Imbalance	< 1600 pF/km

TRANSMISSION CHARACTERISTICS

Coupling attenuation (dB)	85
Transmission Performance	https://adaltra.cloud.akeneo.com/api/rest/v1/media-files/7/f/e/7/7fe7798c63acf305b67fa33d4fe3dcd7eac7a454_F555xSHCyy_PERFORMANCE_EN.png/download
Delay skew	< 30
Unbalance resistance	< 2
Propagation speed (%)	79

TRANSMISSION CHARACTERISTICS

Transmission Performance	https://adaltra.cloud.akeneo.com/api/rest/v1/media-files/7/f/e/7/7fe7798c63acf305b67fa33d4fe3dcd7eac7a454_F555xSHCyy_PERFORMANCE_EN.png/download
Segregation Class	D
Performance Category	Category 6A
Data Transmission Standard	EIA/TIA 568-C.2 Cat6A, EN 50173-1: 2011 Classe Ea, ISO 11801 Ed.3 Classe Ea
Characteristic Impedance (Ohms)	100
Conductor/Shield Capacitance	1,6 nF/km
Conductor/Conductor Capacitance	45 nF/km

MECHANICAL CHARACTERISTICS

Cable Copper Weight (kg/km)	0.0480
Bending Radius in Fixed Installation	8 x Ø ext
Bending Radius in Mobile Installation	15 x Ø ext

ENVIRONMENTAL CHARACTERISTIC

CPR classification	Cca s1, d1, a1
Fire Standard	IEC 60332-1
Smoke emission	IEC 61034-1 & -2
Gas emission	IEC 60754-2
RoHS Compliance	Compliant with the RoHS directive
Component Standard	IEC 61156-5 Cat6A

ADDITIONAL INFORMATION

Minimum Cut	0.0000
REF	F5558SHC5
Maximum E-commerce Drop	0.0000
SKU Collection Photo	f5558sh_hd
Cross-section Diagram Photo	F5558SH_COUPE_EN_HD
Model Cross-section Diagram Photo	F5554SH_COUPE_EN_HD
Pictogram	4p_poe
Model Collection Photo	f5554shcx_hd
Product Range	Multimedia Connect
Product Packaging	Drum of 500m

TRANSMISSION PERFORMANCE

FREQUENCY (Mhz)	INSERTION LOSS (dB/100M)		NEXT (dB/100M)		PSNEXT (dB/100M)		ACR-F (dB/100M)		PSACR-F (dB/100M)		RETURN LOSS (dB/100M)	
	Standard	Typical Value	Standard	Typical Value	Standard	Typical Value	Standard	Typical Value	Standard	Typical Value	Standard	Typical Value
4	-3,8	-3,5	-66,3	-100,0	-63,3	-97,0	-56,0	-106,4	-53,0	-103,4	-23,0	-27,9
10	-5,9	-5,4	-60,3	-106,7	-57,3	-103,7	-48,0	-107,6	-45,0	-104,6	-25,0	-30,3
16	-7,5	-6,8	-57,2	-110,3	-54,2	-107,3	-43,9	-107,5	-40,9	-104,5	-25,0	-33,7
20	-8,4	-7,6	-55,8	-108,1	-52,8	-105,1	-42,0	-108,5	-39,0	-105,5	-25,0	-30,2
31,25	-10,5	-9,7	-52,9	-110,2	-49,9	-107,2	-38,1	-102,5	-35,1	-99,5	-23,6	-30,6
62,5	-15,0	-14,0	-50,9	-103,5	-47,9	-100,5	-32,1	-98,3	-29,1	-95,3	-21,5	-31,1
100	-19,1	-17,8	-48,4	-101,3	-45,4	-98,3	-28,0	-97,2	-25,0	-94,2	-20,1	-41,3
125	-21,5	-20,0	-45,3	-99,0	-42,3	-96,0	-26,1	-95,0	-23,1	-92,0	-19,4	-37,0
155	-24,1	-22,1	-42,4	-98,5	-39,4	-95,5	-24,2	-93,0	-21,2	-90,0	-18,8	-33,0
200	-27,6	-25,4	-40,8	-97,9	-37,8	-94,9	-22,0	-90,1	-19,0	-87,1	-18,0	-30,1
250	-31,1	-27,5	-39,3	-98,0	-36,3	-95,0	-20,0	-86,0	-17,0	-83,0	-17,3	-30,0
300	-34,3	-31,4	-38,1	-99,2	-35,1	-96,2	-18,5	-83,1	-15,5	-80,1	-17,3	-29,7
350	-37,2	-34,2	-37,1	-95,0	-34,1	-92,0	-17,1	-83,0	-14,1	-80,0	-17,3	-28,0
400	-40,1	-36,3	-36,3	-92,0	-33,3	-89,0	-16,0	-83,2	-13,0	-80,2	-17,3	-27,1
450	-42,7	-39,0	-35,5	-91,0	-32,5	-88,0	-14,9	-77,0	-11,9	-74,0	-17,3	-27,5
500	-45,3	-40,9	-34,8	-90,5	-31,8	-87,5	-14,0	-74,9	-11,0	-71,9	-17,3	-27,9
555	N/A	-45,0	N/A	-90,0	N/A	-87,0	N/A	-71,0	N/A	-68,0	N/A	-25,0