



Premium

Data cable, Category 7A S/FTP

This category 7A S/FTP data cable is characterized by high performance reserves and outstanding quality, with excellent shielding performance thanks to individually shielded pairs and a tinned copper braid overall shield. Suitable for information transfer systems up to 1000MHz, 10Gbps Ethernet Signal transmission in audio, video and data applications. For structured cabling according to ANSI EIA / TIA 568, ISO / IEC 11801 and EN 50173 Class FA.

Available packages and colours

5556	High capacity Cat7 A S/FTP cable, Class FA (1000 MHz), LSZH, 500m, RAL2003	IDLP-CAT7O4-10MO05-RER
5557	High capacity Cat7 A S/FTP cable, Class FA (1000 MHz), LSZH, 1000m, RAL2003	IDLP-CAT7O4-10MO10-RER
5558	High capacity Cat7 A S/FTP cable, Class FA (1000 MHz), PVC, 500m, RAL7001	IDLP-CAT7O4-10MG05-RER
5559	High capacity Cat7 A S/FTP cable, Class FA (1000 MHz), PVC, 1000m, RAL7001	IDLP-CAT7O4-10MG10-RER
5560	High capacity Cat7 A S/FTP cable, Class FA (1000 MHz), PE, 500m, RAL9011	IDLP-CAT7O4-10MB05-RER
5561	High capacity Cat7 A S/FTP cable, Class FA (1000 MHz), PE, 1000m, RAL9011	IDLP-CAT7O4-10MB10-RER

CAT7
A S/FTP

 **Fire Retardant**

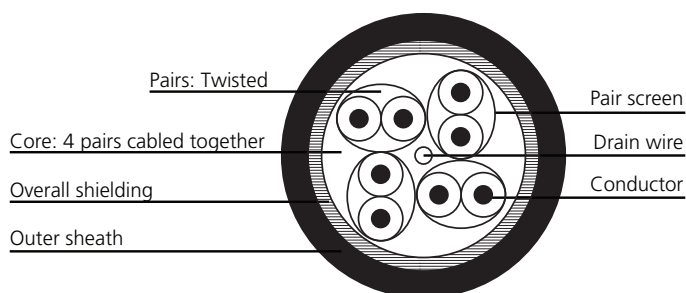
10
Gbps

RoHS
2011/65/EU



Technical data

Category	Cat 7A S/FTP
Applications	indoor/outdoor Class FA (1000 MHz), PoE/PoE+, IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T IEEE 802.5: 16 MB; ISDN TPDDI; ATM
Standards	
according to	ISO/IEC 11801 2nd ed., IEC 61156-5, EN 50173-1, EN 50288-9-1
Flame retardancy	EN 60332-1-2 (LSZH-PVC)
Halogen free	EN 60754-1/2 (LSZH)
Smoke density	EN 61034-2 (LSZH)
Conductors	4x2x AWG22
Material	Cu
Diameter Ø [mm]	0.59
Insulation conductors	
Material	Skin-Foam-Skin PE
Diameter Ø [mm]	1.4
1st shielding (per conductor pair)	
Material	Al/PET foile
Drain wire (material/Ø)	Bare copper, tinned / AWG26
2nd shielding	braid
Material	CuSn
Braid coverage [%]	40
Outer sheath	
Material	FRNC/LSZH (1), PVC (2), PE(3)
Sheath diameter Ø [mm]	7.5
Sheath colour	orange (RAL 2003)(1) grey (RAL 7001)(2) black (RAL 9011)(3)
RoHS compliant	yes
Characteristics	UV protected, fire retardant, footage marker 70 °C, EN 50290-2-27 (1) 70 °C, EN 50290-2-22 (2) 80 °C, EN 50290-2-24 (3)



Electrical data

DC conductor resistance [Ω /km]	max. 68
Resitance unbalanced [%]	2
Insulation resistance [$m\Omega$ /m]	min. 5000
Mutual capacitance [pF /m]	nom. 42
Capacitance unbalance @ 800 Hz [pF /km]	max. 1600
Impedance @ 100 MHz [Ω]	100 \pm 5
Coupling attenuation (Type 1) [dB]	min. 85
Velocity rate [%]	78 ~ 80
Propagation delay [ns/100m]	max. 430
Skew @ 100 MHz [ns/100m]	max. 25
Testing voltage [kV]	1
Operation voltage [V]	125

Transmission data at 20 °C @

	Attenuation typ. [dB/100m]	Return Loss typ. [dB]
1 MHz	1.9	26
4 MHz	3.5	30
10 MHz	5.4	33
100 MHz	17.4	33
200 MHz	24.9	32
250 MHz	27.8	30
500 MHz	40.1	28
600 MHz	43.8	25
800 MHz	50.1	23
1000 MHz	59	20
1200 MHz	64	20
1500 MHz	-	-

Transfer impedance [$m\Omega$ /m] @

	Grade 1
1 MHz	5
10 MHz	5
30 MHz	10

Near end crosstalk (NEXT) [dB] @

30 MHz - 100 MHz	typ. > 105
100 MHz - 1000 MHz	typ. > 95

Mechanical data

Operating temperature	-20 °C ~ +60 °C
Installation temperature	-0 °C ~ +50 °C
Bending radius (installation/as installed) [mm]	8x D / 4x D
Tensile strength [N]	120
Cable weight [kg/km]	60(LSZH), 59(PVC), 54(PE)
Copper content. [kg/km]	30