



# Ultra

## 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 1200MHz, 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.

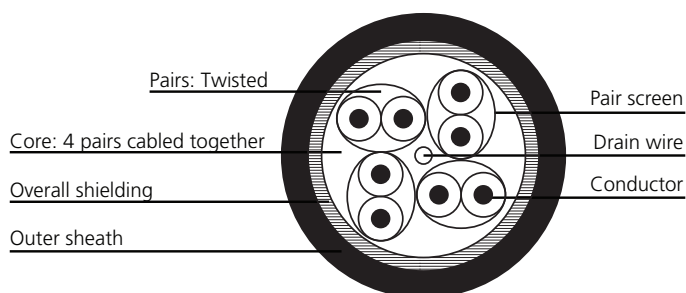
### Available packages and colours

5562	High performance Cat7 A+ S/FTP cable, Class FA (1200 MHz), LSZH, 500m, RAL5002	IDLU-CAT7O4-12MU05-RER
5563	High performance Cat7 A+ S/FTP cable, Class FA (1200 MHz), LSZH, 1000m, RAL5002	IDLU-CAT7O4-12MU10-RER
5564	High performance Cat7 A+ S/FTP cable, Class FA (1200 MHz), PVC, 500m, RAL7001	IDLU-CAT7O4-12MG05-RER
5565	High performance Cat7 A+ S/FTP cable, Class FA (1200 MHz), PVC, 1000m, RAL7001	IDLU-CAT7O4-12MG10-RER
5566	High performance Cat7 A+ S/FTP cable, Class FA (1200 MHz), PE, 500m, RAL9011	IDLU-CAT7O4-12MB05-RER
5567	High performance Cat7 A+ S/FTP cable, Class FA (1200 MHz), PE, 1000m, RAL9011	IDLU-CAT7O4-12MB10-RER



## Technical data

Category	Cat 7A+ S/FTP
Applications	indoor/outdoor Class FA (1200 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 61156-7, EN 50173-1
Flame retardancy	EN 60332-1-2 (LSZH-PVC)
Halogen free	EN 60754-1/2 (LSZH)
Smoke density	EN 61034-2 (LSZH)
Structure	
Conductors	4x2x AWG22
Material	Cu
Diameter Ø [mm]	0.63
Insulation conductors	
Material	Skin-Foam-Skin PE
Diameter Ø [mm]	1.52
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]	7.8
Sheath colour	blue (RAL 5002)(1) grey (RAL 7001)(2) black (RAL 9011)(3)
RoHS compliant	yes
Characteristics	<b>UV protected, fire retardant, footage marker</b> 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 [ $\Omega$ /km]	max. 60
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 [ $\Omega$ ]	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	1.7	26
4 MHz	3.2	30
10 MHz	4.9	33
100 MHz	16.1	33
200 MHz	23.6	32
250 MHz	26	27
500 MHz	37.2	26
600 MHz	40.2	26
800 MHz	49	23
1000 MHz	54.8	22
1200 MHz	58	20
1500 MHz	67.5	19

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

	Grade 1
1 MHz	5
10 MHz	5
30 MHz	8

## 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]	135
Cable weight [kg/km]	67(LSZH), 66(PVC), 59(PE)
Copper content. [kg/km]	32