



# HOME Pro

## Data cable, Category 7 S/FTP

This category 7 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 500MHz, 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 EA.

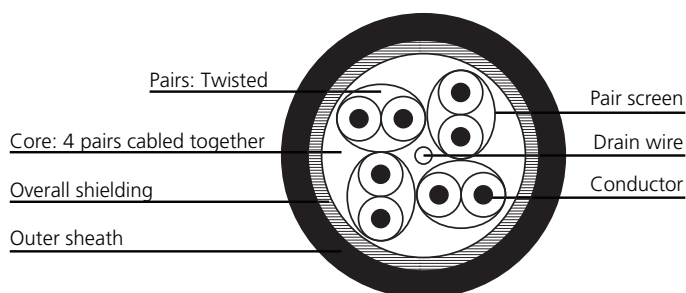
### Available packages and colours

5550	Advanced Cat7 S/FTP cable, Class EA (500 MHz), LSZH, 500m, RAL4007	IDLH-CAT7O4-05MV05-RER
5551	Advanced Cat7 S/FTP cable, Class EA (500 MHz), LSZH, 1000m, RAL4007	IDLH-CAT7O4-05MV10-RER
5552	Advanced Cat7 S/FTP cable, Class EA (500 MHz), PVC, 500m, RAL7001	IDLH-CAT7O4-05MG05-RER
5553	Advanced Cat7 S/FTP cable, Class EA (500 MHz), PVC, 1000m, RAL7001	IDLH-CAT7O4-05MG10-RER
5554	Advanced Cat7 S/FTP cable, Class EA (500 MHz), PE, 500m, RAL9011	IDLH-CAT7O4-05MB05-RER
5555	Advanced Cat7 S/FTP cable, Class EA (500 MHz), PE, 1000m, RAL9011	IDLH-CAT7O4-05MB10-RER



## Technical data

Category	Cat 7 S/FTP
Applications	indoor/outdoor Class EA (500 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 50288-4-1
Flame retardancy	N 60332-1-2 (LSZH-PVC)
Halogen free	EN 60754-1/2 (LSZH)
Smoke density	EN 61034-2 (LSZH)
<b>Conductors</b>	4x2x AWG22
Material	Cu
Diameter Ø [mm]	0.57
<b>Insulation conductors</b>	
Material	Skin-Foam-Skin PE
Diameter Ø [mm]	1.36
<b>1st shielding (per conductor pair)</b>	
Material	Al/PET foile
Drain wire (material/Ø)	Bare copper, tinned / AWG26
<b>2nd shielding</b>	braid
Material	CuSn
Braid coverage [%]	40
<b>Outer sheath</b>	
Material	FRNC/LSZH (1), PVC (2), PE(3)
Sheath diameter Ø [mm]	7.4
Sheath colour	violet (RAL 4007)(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 [ $\Omega$ /km]	max. 75
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	1.8	26
4 MHz	3.3	30
10 MHz	5.3	33
100 MHz	17.5	33
200 MHz	25.2	32
250 MHz	28	30
500 MHz	40.5	27
600 MHz	44.5	25
800 MHz	55	22
1000 MHz	57	21
1200 MHz	-	-
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]	110
Cable weight [kg/km]	55(LSZH), 54(PVC), 48(PE)
Copper content. [kg/km]	28