

MODEL: ATZ STPCAT7.300-OR

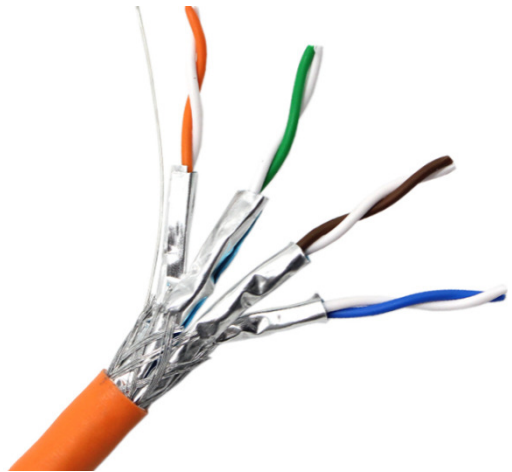
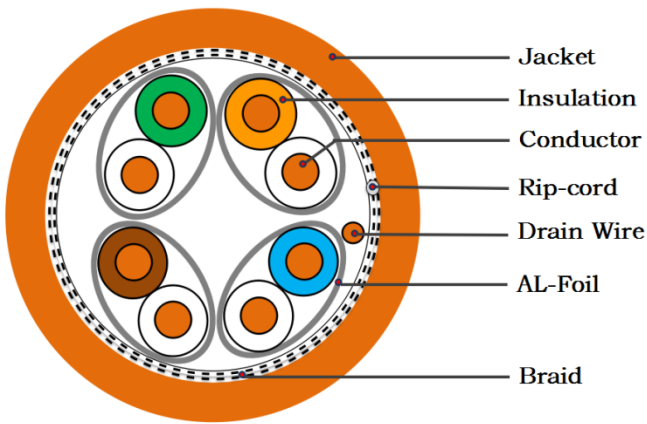
Features

- Complies with Category7, ANSI/TIA/EIA 568c.2 & ISO/IEC 11801 Standard
- Supports transmission of digital and analogue voice, data and video signal
- Products adopts shielding Aluminum Foil(Each pair) +Al-Ma Alloy Braid, able to reach a very good shielding effect.
- Products adopt LSZH Jacket
- Products can pass FLUKE test.
- Rated Temperature: -20° to +70°

Application:

• ATM 155Mbps	• Ethernet 10 BASE-T,100BASE-TX,100BASE-VG,100BASE-T4
• 1000Mbps 1000BASE-T Gigabit Ethernet™ (IEEE 802.3)	• Fast Ethernet (IEEE 802.3u)
• 10Gvg-AnyLAN (IEEE 802.12)	• Token Ring (IEEE 802.5)
• TP-PMD (ANSI X3T9.5)	• 10G bps CDDI

Construction:



Conductor	Material	Bare copper
	Diameter	0.57mm
Insulation	Material	FEP
	Thickness	≥0.25mm
	Diameter	1.3 ± 0.5mm
Shielded Layer	First layer	Aluminum Foil(Each Pair shield)


	Second layer	16*4*0.12 AL-Mg Braid
Drain wire	Material	CCA
	Diameter	0.4mm
Rip-cord	Material	Nylon
Jacket	Material	LSZH
	Diameter	7.4 ± 0.3mm
Twisted pair	N/A	Pair 1 : Blue, White Pair 2 : Orange, White Pair 3 : Green, White Pair 4 : Brown, White

Mechanical Characteristics

Temperature Rating	Installation	0 ^o to+ 60 ^o
	Operating	-20 ^o -75 ^o
Tensile Strength	Before	≥13.8Mpa
Elongation	Aging	≥100%
Aging Condition		100 ^o ×168hours
	After	≥85% of unaged
	Aging	≥50% of unaged

Electrical Characteristics:

Max.Conductor DC Resistance @20^o	9.65Ω/100Meters
Maximum DC Resistance Unbalanced@20^o	5%
Max.Pair-to-Pair Ground Capacitance Unbalance	330pF/100Meters
Characteristic Impedance(1~350Mhz)	100±15Ω
Mutual Capacitance	5.6nF/100Meters

Max.Delay Skew	40ns/100Meters
Marking :	
CAT7 SFTP 4PR/23AWG TIA/EIA 568C.2 ISO/IEC11801 001M 002M....305M	
Packing :	
<ul style="list-style-type: none"> • 300m per Reel (other length is also available as request) 	
	

Electrical Characteristics								
Frequenc y	Impedance	Return Loss	Attenuation	NEXT Worst Pair	NEXT Power Sum	ELFEXT Worst Pair	ELFEXT Power Sum	Nominal Velocity Propagation
MHz	Ohm	dB	dB/100	dB	dB	dB	dB	
1	100±15	20.0	2.0	74.3	72.3	67.8	64.8	0.76C
4		23.0	3.8	65.3	63.3	55.8	52.8	
8		24.5	5.3	60.8	58.8	49.7	46.7	
10		25.0	6.0	59.3	57.3	47.8	44.8	
16		25.0	7.6	56.2	54.2	43.7	40.7	
20		25.0	8.5	54.8	52.8	41.8	38.8	

25		24.3	9.5	53.3	51.3	39.8	36.8	
31.25		23.6	10.7	51.9	49.9	37.9	34.9	
62.5		21.5	15.4	47.4	45.4	31.9	28.9	
100		20.1	19.8	44.3	42.3	27.8	24.8	
150		18.9	24.7	41.7	39.7	24.3	21.3	
200		18.0	29.0	29.8	37.8	21.8	18.8	
250		17.3	32.8	38.3	36.3	19.8	16.8	
500		17.3	48.1	28.3	26.4	14.6	12.7	
600		16.5	51.0	26.5	24.7	12.8	11.6	