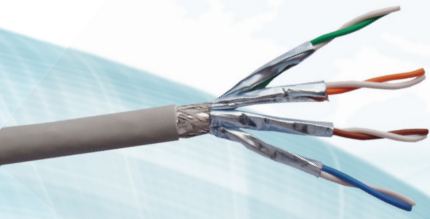




# PowerMAX7™

## SFTP CABLE



DINTEK PowerMAX7™ Category7 cable is specifically designed to support current and future high speed network applications such as 10-Gigabit Ethernet.

The cable is constructed of 4 screened pairs and a drain wire. DINTEK PowerMAX7™ Category7 S/FTP cable eliminates alien crosstalk, gives excellent signal isolation and provides superior electromagnetic interference protection.

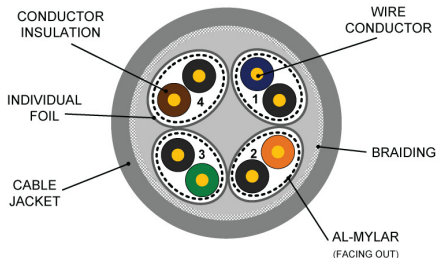
### STANDARDS

- Flame Retardancy is verified according to IEC 60332-1-2
- ISO/IEC11801 Class F, 2nd edition
- ANSI/TIA/EIA Cabling Standard 568-C.2
- 3P Certified for Category 7 S/FTP installation Cable

### APPLICATION

- 10GBASE-T Ethernet
- 100BASE-TX Fast Ethernet
- 1000BASE-T Gigabit Ethernet
- 1000BASE-TX Gigabit Ethernet
- 10BASE-TX Ethernet
- ATM CB1G
- 155/622 Mbps ATM
- 100 Mbps TP-PMD
- 100VG-AnyLAN
- 4/16 Mbps Token Ring
- Voice

### CONSTRUCTION



### ORDERING INFORMATION

PART No.	DESCRIPTION
1105-05001	Cat.7.4P.S/FTP.23AWG Solid LSHF (LSZH) gray
	305Mtr Roll On Wooden drum w/Tinned copper Braiding DINTEK logo

### CONSTRUCTION

- Twisted pair color code:
  - Pair 1> blue, white/blue ring.
  - Pair 2> orange, white/orange ring
  - Pair 3> green, white/green ring
  - Pair 4> brown, white/brown ring
- Conductor:23AWG solid Bare copper 0.419mm±0.02mm
- Insulation material: Foam-Skin PE
- Diameter of dielectric core: 1.42±0.05mm
- Number of twist pairs: 4 pairs
- Individual Shielding: A layer of aluminum mylar tape
- Assembly: 4 pairs of dielectric core shall be stranded in circular form.
- Overall Shielding: Tinned copper wire Braiding, normal with min. 40% coverage.
- Material of jacket: LSHF (LSZH)
- Overall Diameter: Ave 7.4±0.3mm
- Color: Assorted upon request

### TECHNICAL DATA

- Unaged Jacket Elongation: min 125%(LSHF)
- Jacket tensile strength: min 0.917Kg/mm2(LSHF)
- After aging jacket tensile strength: Min tensile strength: 70%(LSHF)
- After aging jacket elongation: Min elongation retention :75%(LSHF)
- Spark test:2000 ± 250 V ac
- Impedance: 125 Ohm 20%(64KHz). 100 Ohm 15%(1~250MHz). 100 Ohm 25%(300-600MHz)
- D.C.R (Max.) : 9.380hm /100m at 20deg C
- D.C.R. Unbalance (Max.) : 2% MAX.
- Mutual Capacitance: nom. 5600pf/100m
- Capacitance, unbalance (Max.): 160 pF/100m
- DC Insulation Resistance (Min.): 5000Mohm/km
- Dielectric Strength: 1500 Vdc / 2 seconds

### TRANSMISSION PERFORMANCE

Frequency (MHz)	Max. Attenuation (dB/100meters)	NEXT (dB), Min.	PSNEXT (dB), Min.
1 MHz	2.0*	74.3*	72.3*
4 MHz	3.8*	65.3*	63.3*
10 MHz	6.0*	59.3*	57.3*
16 MHz	7.6*	56.2	54.2*
20 MHz	8.5*	54.8*	52.8*
31.25 MHz	10.7*	51.9*	49.9*
62.5 MHz	15.4*	47.4*	45.4*
100 MHz	19.8*	44.3*	42.3*
200 MHz	29.0*	39.8*	37.8*
300 MHz	36.4*	37.1*	35.1*
600 MHz	54.5*	32.6*	30.6*

The asterisked (\*) value are for information only. The minimum Next coupling loss for any pair combination at room temperature is to be greater than the value determined using the formula:  
 $NEXT(f \text{ MHz}) \geq NEXT(0.772) - 15LOG10(f \text{ MHz}/0.772) \text{ dB}$

### DINTEK Category 7 Product Benefits

- Meets ANSI/TIA/EIA Cabling Standard 568-C.2
- Has been Independently confirmed for system performance
- DINTEK CAT.7 products can be warranted for 25 years as part of a DINTEK Structured Network
- DINTEK CAT.7 cable is Interoperable with DINTEK and other standards compliant products
- Higher Bandwidth of up to 600 MHz as compared with Cat 5e (100 MHz) ,Cat 6 (250 MHz) & Cat.6A (500MHz)
- Moving from existing copper based LAN without having to change the existing electronics
- 3P Certified for Category 7 S/FTP installation Cable



### Compliance Statement

Screened Category 7 ISO/IEC, EN & Enhanced ANSI/TIA Communication Cable  
 DINTEK Identification P/N 1105-05001X  
 Category 7, Individually Paired and Overall Paired screened 100 Ohm, 4 Twisted Pairs, 23 AWG, Flame Retardant, LSHF, Copper Cable  
 DINTEK Electronic Ltd.  
 No.8, Lane 97, Wu-Kong Rd., Wu-Ku Industrial District, Hsin Chuang, Taipei Hsien, Taiwan, R.O.C.  
 Compliance Statement No. 1115984  
 This document (DINTEK - EN & Enhanced ANSI/TIA Communication Cable) has been tested by 3P Third Party Testing and complies with the Category 7 performance requirements of section 2.2 of ISO/IEC Generic Cabling Standard 11801, EN/IEC Generic Cabling Standard EN 50173-1/102 and ANSI/TIA Generic Cabling Standard 568-C.2. The Category 7A requirements of ANSI/TIA Generic Cabling Standard 568-C.2 and the requirements of 27 screened CAT.7E Cable Standard EIA/TIA-568-C.2. These cables are verified according to IEC 60332-1-2, IEC 60332-1-2, IEC 60332-1, and IEC 60753-2. The cable has EMC Performance being 0. The Compliance Statement is the responsibility of the manufacturer and is subject to change without notice.  
 Hsinchu, 25th January 2012  
 Hsinchu, 25th January 2012  
 Test Responsible: [Signature]  
 Coordinating Manager: [Signature]

### COMPATIBLE PRODUCTS



1305-05002 CAT.6A Horizontal Shielded Jack



1406-00012 CAT.6A 1U Shielded Patch Panel