

## PowerMAX7™ S/FTP 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.

### Application:

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



### Industry Standard:

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

### Cable Data:

- 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 0.583mm±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-foil laminated tape will be wrapped over the twinning, the aluminum side face-out.
- 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: PVC/LSZH
- Overall Diameter: Ave 7.4±0.3mm
- Color: Assorted upon request

### Product Electrical Characteristics:

- Spark test: 2000 ± 250 V ac
- Impedance: 125 ohms±20%(64KHz)  
100 ohms±15%(1~500MHz)
- D.C.R (Max.) : 7.91 ohm /100m at 20°C
- D.C.R. Unbalance (Max.) : 2% MAX.
- Mutual Capacitance: nom. 5600pf/100m
- Capacitance, unbalance (Max.): 160 pF/100m
- DC Insulation Resistance (Min.): 150M ohm/km
- Dielectric Strength: 2500 Vdc / 3 seconds

P/N	Description	Jacket	Color	Std Pkg Qty
1105-05002	Cat.7 4P S/FTP Tinned copper braiding 23AWG solid cable	PVC	Gray	305M/Reel
1105-05004	Cat.7 4P S/FTP Tinned copper braiding 23AWG solid cable	LSZH	Violet	305M/Reel

→ Other colors are available upon request.

Frequency (MHz)	Attenuation Max. dB/100m	NEXT dB/100m	Power Sum Minimum dB/100m
1	2.0	80.0	77.0
4	3.7	80.0	77.0
10	5.9	80.0	77.0
16	7.4	80.0	77.0
20	8.3	80.0	77.0
31.25	10.4	80.0	77.0
62.5	14.9	75.5	72.5
100	19.0	72.4	69.4
155	24.0	69.5	66.5
200	27.5	67.9	64.9
300	34.2	65.2	62.2
600	50.1	60.7	57.7

## Compliance Statement

**Screened Category 7  
ISO/IEC, EN & Enhanced ANSI/TIA  
Communication Cable**

**DINTEK Identification P/N 1105-05001X**  
Category 7, Individual Foil and Overall Foil Screened  
100 ft, 4 Twisted Pairs, 23 AWG, Flame Retardant, LSZH, Copper Cable

**DINTEK Electronic Ltd.**  
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Hsin Chuang, Taipei Hsien, Taiwan, R.O.C.

Compliance Statement No. 111659A

This Screened ISO/IEC, EN & ANSI/TIA Communication Cable has been tested by 3P Third Party Testing and complies with the Category 7 performance requirements of edition 2.2 of ISO/IEC Generic Cabling Standard 11801, CENELEC Generic Cabling Standard EN 50174:2011 and 2nd edition IEC Cable Standard 61158-5, the Category 6A requirements of ANSI/TIA Generic Cabling Standard 568-C2 and the requirements of 2nd edition CENELEC Cable Standard EN 50388-4-1. Flame index is verified according to IEC 60332-1-2, IEC 61034-1, IEC 61034-2, Inc1. amendment 1, and IEC 60754-2. The cable has EMC Performance Rating 9. The Compliance Statement may be suspended or withdrawn if cable fails to pass a Maintenance Testing performed at 6 or 12 month intervals.

Hoersholm, 25<sup>th</sup> January 2012

  
 Ole Laubertsen  
 Test Responsible

Hoersholm, 25<sup>th</sup> January 2012

  
 Poul Villen  
 Coordinating Manager

Independent Testing - For End User Confidence