

DATA SHEET

1105-05002

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PowerMAX7 Cat.7 S/FTP 23AWG PVC 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™ Category 7 S/FTP cable eliminates alien crosstalk, gives excellent signal isolation and provides superior electromagnetic interference protection.

Applications

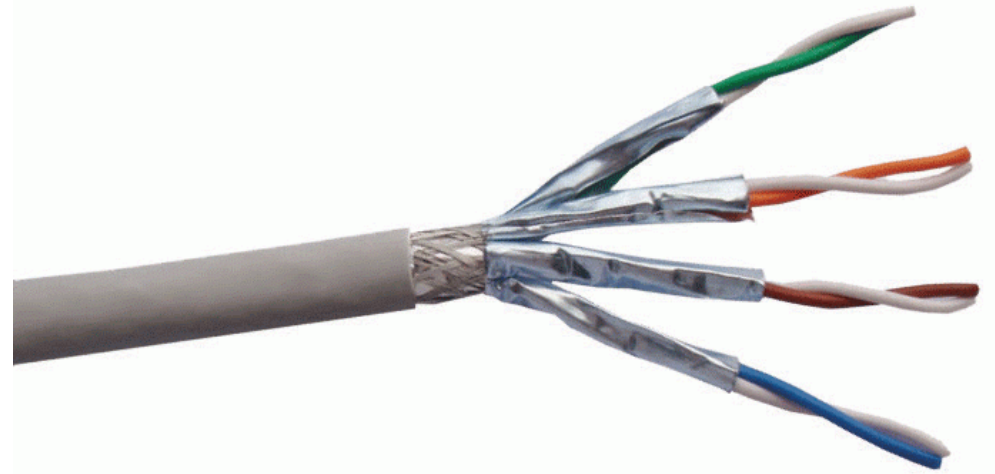
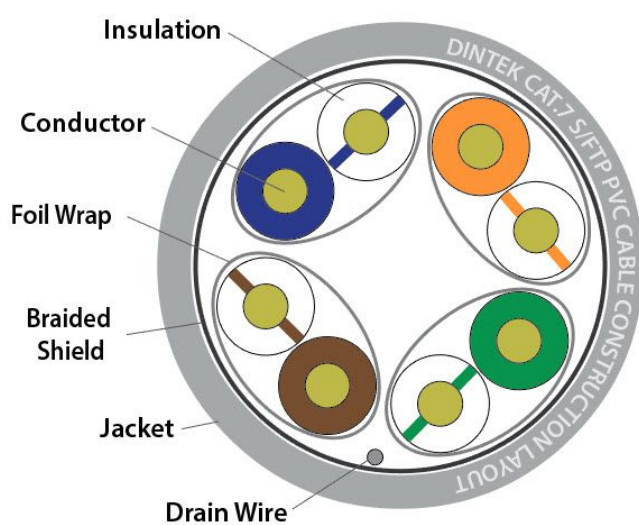
- 10GBASE-T Ethernet
- 100BASE-TX Fast Ethernet
- 1000BASE-T Gigabit Ethernet
- 1000BASE-TX Gigabit Ethernet
- 10BASE-TX Ethernet
- ATM CB1G | 155/622 Mbps ATM
- 100 Mbps TP-PMD | 100VG-AnyLAN | Voice

Standards Conformance

- Flame Retardancy is verified according to IEC 60332-1-2
- ISO/IEC11801 Class F, 2nd edition
- ANSI/TIA/EIA Cabling Standard 568-C.2

Independently Verified Certifications

3P Certified for Category 7 S/FTP installation Cable



Performance Statistics

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

Ordering Information

Product Number	Product Name	Jacket Type	Color	Length Qty
1105-05002	PowerMAX7 Cat.7 S/FTP 23AWG PVC Cable	PVC	Gray	305m/Reel
1105-05001	PowerMAX7 Cat.7 S/FTP 23AWG LSZH Cable	LSZH	Gray	305m/Reel
1105-05004	PowerMAX7 Cat.7 S/FTP 23AWG LSZH Cable	LSZH	Violet	305m/Reel

Technical Specifications

Construction		
Conductor		
Material	Solid Bare copper	
Wire Size	23AWG	
Insulation		
Material	Foam-Skin PE	
Thickness	Nominal: 0.419 mm	
Diameter	Nominal: 1.42 mm	
Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown	
Unaged Elongation (%)	Min. 100%	
Unaged Tensile Strength	Min. 0.816 Kgf/mm ²	
Individual Shielding	A layer of aluminum mylar tape	
Jacket		
Material	PVC	
Thickness	Nominal: 0.5 mm	
Diameter	7.4±0.3mm	
Color	Gray - (Assorted upon request)	
Overall Shielding	Tinned copper wire Braiding, normal with min. 40% coverage	
Physical Ranges		
Insulation		
Min. Tension Strength	Before Aging	Min. 0.816 Kgf/mm ²
	After Aging	
Min Elongation (%)	Before Aging	Min. 100%
	After Aging	
Jacket		
Min. Tension Strength	Before Aging	Min. 0.917Kgf/mm ²
	After Aging	Min. tensile strength retention: 70%
Min Elongation (%)	Before Aging	Min. 125%
	After Aging	Min. elongation retention: 75%
Dielectric Strength	1500 V dc / 2 seconds	
Min. Bending Radius	32mm	
Max. Pulling Tension	25lb / Mtr (8-10kg)	
Installation Temperature	0°C to + 50°C	
Operating Temperature	-20°C to + 60°C	
Electrical		
Conductor Resistance	Max. 9.38 Ω/100m at 20°C	
DC Resistance Unbalance	Max. 2%	
Pair-to-Ground Capacitance Unbalance	Max. 160 pF/100m	
Dielectric Strength of Insulation	2500 Vdc / 3 seconds	
Insulation Resistance Test	Min. 5000 MΩ·Km	
Mutual Capacitance	Max. 5600 pF/100m	
Impedance 100~250MHz	100Ω ± 15%	
Impedance 300~600MHz	100Ω ± 25%	
Dielectric Strength	1500 V dc / 2 seconds	

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