

DATA SHEET

1105-06008

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PowerMAX+ Cat.6A S/FTP 23AWG PVC Cable

DINTEK PowerMAX+™ CAT.6A S/FTP Cable is specifically designed to support high speed network applications such as 10-Gigabit Ethernet .

The cable is constructed of 4 screened pairs and a drain wire. DINTEK PowerMAX+™ CAT.6A S/FTP cable minimizes alien crosstalk, provides excellent signal isolation and provides superior electromagnetic interference protection.



Applications

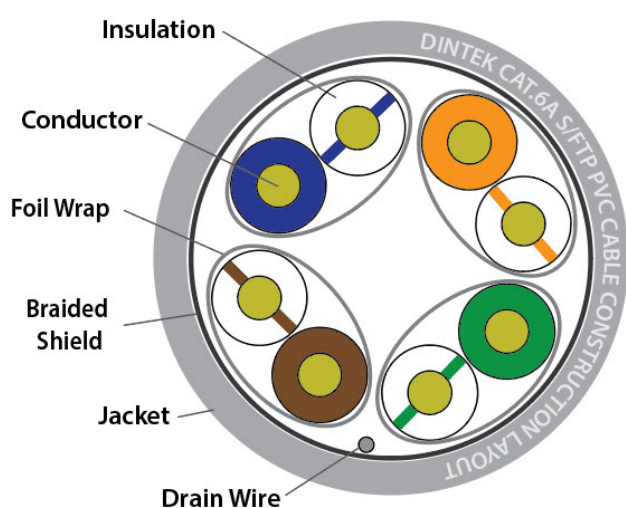
- 10GBASE-T Ethernet
- 100BASE-TX Fast Ethernet
- 1000BASE-TX Gigabit Ethernet
- 1000BASE-T Gigabit Ethernet
- 10BASE-TX Ethernet
- ATM CB1G
- 155/622 Mbps ATM
- 100 Mbps TP-PMD
- 100VG-AnyLAN

Standards Conformance

- UL Listed
- CENELEC EN 50173-1, CENELEC EN 50288-10-1
- ISO/IEC 2nd Edition 11801 Class EA
- IEC 3rd Edition 61935-1, IEC 2nd edition 61156-5
- All proposed Category 6A Requirements as Per ANSI/TIA,
- ISO/IEC, and CENELEC EN Standard ANSI/TIA-568-2.D Cat.6A
- 3P Certified for Category 6A S/FTP installation Cable
- Flame Retardancy is verified according to IEC 60332-1-2
- Implemented ROHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC

Performance Statistics

Frequency Mhz	Insertion Loss dB / 100mtrs	NEXT (dB)	Return Loss (dB)
1	2.1	75.3	20.0
4	3.8	66.3	23.0
10	5.9	60.3	25.0
16	7.5	57.2	25.0
20	8.4	55.8	25.0
31.25	10.5	52.9	23.6
62.5	15	48.4	21.5
100	19.1	45.3	20.1
200	27.6	40.8	18.0
250	31.1	39.3	17.3
300	34.3	38.1	17.3
400	40.1	36.3	17.3
500	45.3	34.8	17.3



Ordering Information

Product Number	Product Name	Jacket Type	Color	Length Qty
1105-06008	PowerMAX+ Cat.6A S/FTP 23AWG PVC Cable	PVC	Gray	305m/Reel
1105-06002	PowerMAX+ Cat.6A S/FTP 23AWG LSZH Cable	LSZH	Gray	305m/Reel

Technical Specifications

Construction		
Conductor		
Material	Pure Annealed Copper	
Wire Size	23AWG	
Insulation		
Material	Foam-Skin PE	
Thickness	Nominal:0.419	
Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown	
Unaged Elongation (%)	Min.100%	
Unaged Tensile Strength	0.816 Kg/mm ²	
Jacket		
Material	PVC	
Thickness	0.5 mm	
Diameter	7.4 mm	
Color	Gray	
Screen Material	Aluminum-Mylar tape and tinned copper braid	
Physical Ranges		
Insulation		
Min. Tension Strength	Before Aging	0.816 Kg/mm ²
	After Aging	
Min Elongation (%)	Before Aging	Min.100%
	After Aging	
Jacket		
Min. Tension Strength	Before Aging	min 1.407Kg/mm ²
	After Aging	75%(PVC) at 100°C for 168Hrs
Min Elongation (%)	Before Aging	100%
	After Aging	50% at 100°C for 168Hrs
Cold Bend Test	-20 ± 20C X 4hrs no. crack	
Dielectric Strength	1500 V dc/ 2 seconds	
Min. Bending Radius	40mm	
Max. Pulling Tension	8-10kg (25lbs)	
Installation Temperature	-10°C to +60°C	
Operating Temperature	-10°C to +60°C	
Electrical		
Conductor Resistance	Max.9.38Ω/100m at 200C	
DC Resistance Unbalance	2% MAX	
Pair-to-Ground Capacitance Unbalance	160 pF/100m	
Dielectric Strength of Insulation	AC 1.7 KV for 2 s	
Insulation Resistance Test	Min. 5000MΩ/Km	
Mutual Capacitance	5.6nF/100m	
Impedance	1~500MHz:100Ω 15%	

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