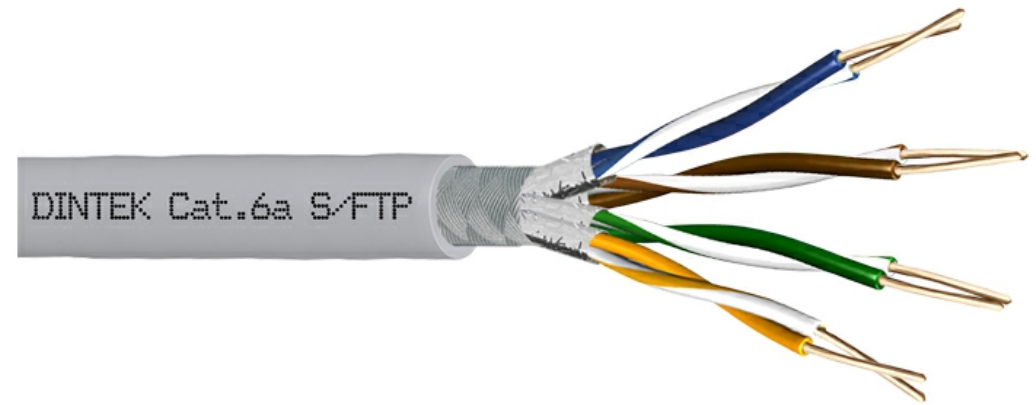


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# PowerMAX+ Cat.6A S/FTP 23AWG PVC Cable

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

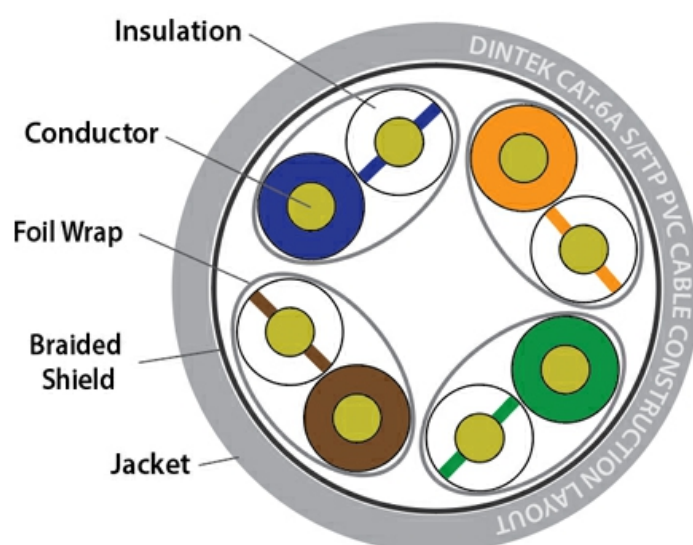
- 10GBASE-T Ethernet
- 100BASE-TX Fast Ethernet
- 1000BASE-TX Gigabit Ethernet
- 1000BASE-T Gigabit Ethernet
- 10BASE-TX Ethernet
- ATM CB1G
- 155/622 Mbps ATM
- 100 Mbps TP-PMD
- 100VG-AnyLAN

### 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		
<b>Conductor</b>		
Material	Pure Annealed Copper	
Wire Size	23AWG	
<b>Insulation</b>		
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 <sup>2</sup>	
<b>Jacket</b>		
Material	PVC	
Thickness	0.5 mm	
Diameter	7.4 mm	
Color	Gray	
Screen Material	Aluminum-Mylar tape and tinned copper braid	
Physical Ranges		
<b>Insulation</b>		
Min. Tension Strength	Before Aging	0.816 Kg/mm <sup>2</sup>
	After Aging	
Min Elongation (%)	Before Aging	Min.100%
	After Aging	
<b>Jacket</b>		
Min. Tension Strength	Before Aging	min 1.407Kg/mm <sup>2</sup>
	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%	

### DINTEK Electronic Limited

中文: 台北市中山區中山北路二段96號 嘉新第二大樓五樓N511 英文  
 N511, 5F, 2nd Bldg, No. 96, Sec. 2, Zhongshan N. Rd., Zhongshan Dist., Taipei City 10449, Taiwan (R.O.C.)  
 P: Office: +886-2-22997898 E-mail: sales@dintek.com.tw W: www.dintek.com.tw

1105-06008