

Publish Date : 07.06.2019 | Rev no: 03

# PowerMAX Cat.6 U/FTP 23AWG LSZH Cable

The DINTEK PowerMAX™ Shielded Category 6 solutions are guaranteed to exceed ClassE channel specifications as set down in International standards.

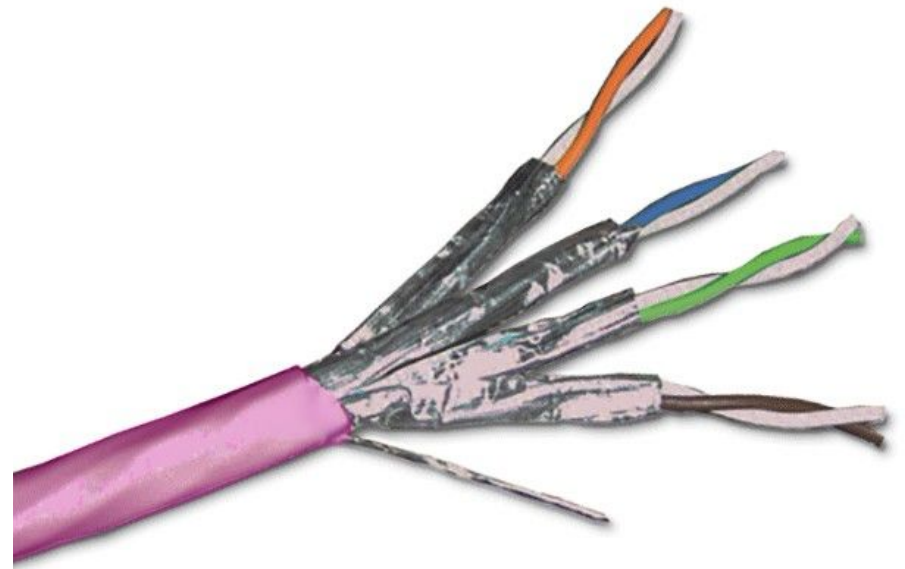
Our PowerMAX™ shielded solution comprises Category 6 component compliant patch panels, keystones and patch cords. When combined with DINTEK's Category 6 FTP & S/FTP cable, an end-to-end channel exists that maximises data throughput and provides headroom for all future technologies operating beyond one Gigabit. Combined with other DINTEK PowerMAX™ shielded products, our Category 6 cable is the perfect solution to your voice and data communications needs.

### Applications

- 1000BASE-TX Gigabit Ethernet
- 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
- 100 VG – AnyLAN (IEEE802.12), 155/622 Mbps ATM
- 550MHz Broadband Video
- Voice, T1, ISDN

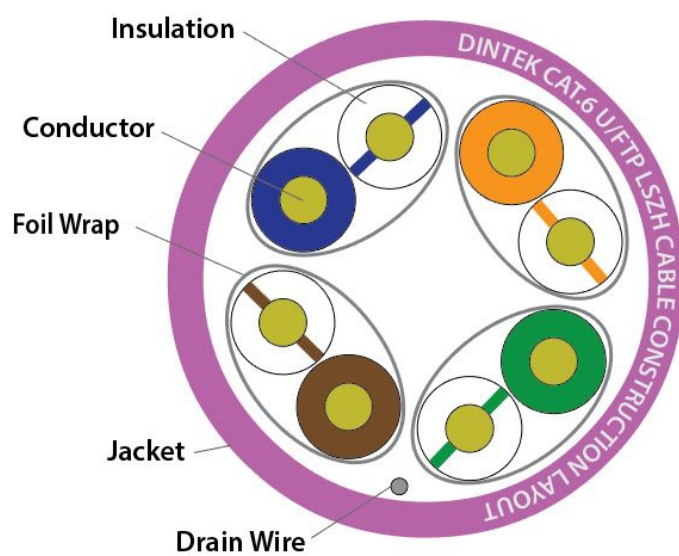
### Standards Conformance

- ANSI/TIA-568-C.2 Cat.6
- ISO/IEC 2nd Edition 11801 CLASS E
- CENELEC EN 50173-1, CENELEC EN 50288-5-1, IEC 61156-5 for horizontal cable
- Flame Retardancy is verified according to IEC 60332-1-2.
- We implemented RoHS compliance for the requirement of European Union issued Directive 2011/95/EU



### Performance Statistics

Frequency Mhz	Insertion Loss dB / 100mtrs	NEXT (dB)	Return Loss (dB)
1	2.0	74.3	20.0
4	3.8	65.3	23.0
10	6.0	59.3	25.0
16	7.6	56.2	25.0
20	8.5	54.8	25.0
31.25	10.7	51.9	23.6
62.5	15.4	47.4	21.5
100	19.8	44.3	32.3
150	24.9	41.4	30.8
200	29.0	39.8	18.0
250	32.8	38.3	17.3



### Ordering Information

Product Number	Product Name	Jacket Type	Color	Length Qty
1107-04007	PowerMAX Cat.6 U/FTP 23AWG LSZH Cable	LSZH	Violet	305m/Reel

## Technical Specifications

Construction		
<b>Conductor</b>		
Material	Bare Copper	
Wire Size	23AWG	
<b>Insulation</b>		
Material	Foam-Skin PE	
Thickness	Nominal: 0.414 mm	
Diameter	Nominal: 1.387 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 <sup>2</sup>	
Screen	Aluminum-Mylar tape	
<b>Jacket</b>		
Material	Fire Retardant LSZH	
Thickness	Nominal: 0.5 mm	
Diameter	Nominal: 7.3 mm	
Color	Violet	
	LSZH	
Drain Wire	Tinned copper	
Physical Ranges		
<b>Insulation</b>		
Min. Tension Strength	Before Aging	Min. 0.816 Kgf/mm <sup>2</sup>
	After Aging	
Min Elongation (%)	Before Aging	Min. 100%
	After Aging	
<b>Jacket</b>		
Min. Tension Strength	Before Aging	Min. 0.917 Kgf/mm <sup>2</sup>
	After Aging	Min. tensile strength retention:70% - Aging at 100°C for 168Hrs
Min Elongation (%)	Before Aging	Min. 125%
	After Aging	Min. elongation retention:75% - Aging at 100°C for 168Hrs
Dielectric Strength	1500 V dc / 2 seconds	
Min. Bending Radius	30mm	
Max. Pulling Tension	25lbs	
Installation Temperature	0°C to +50°C	
Operating Temperature	-20°C to +70°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	1500 V dc / 2 seconds	
Insulation Resistance Test	Min. 5000 MΩ·Km	
Mutual Capacitance	Max. 5600 pF/100m	
Impedance 1~100MHz	125Ω ± 20%	
Impedance 100~250MHz	100Ω ± 15%	

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