DATA SHEET

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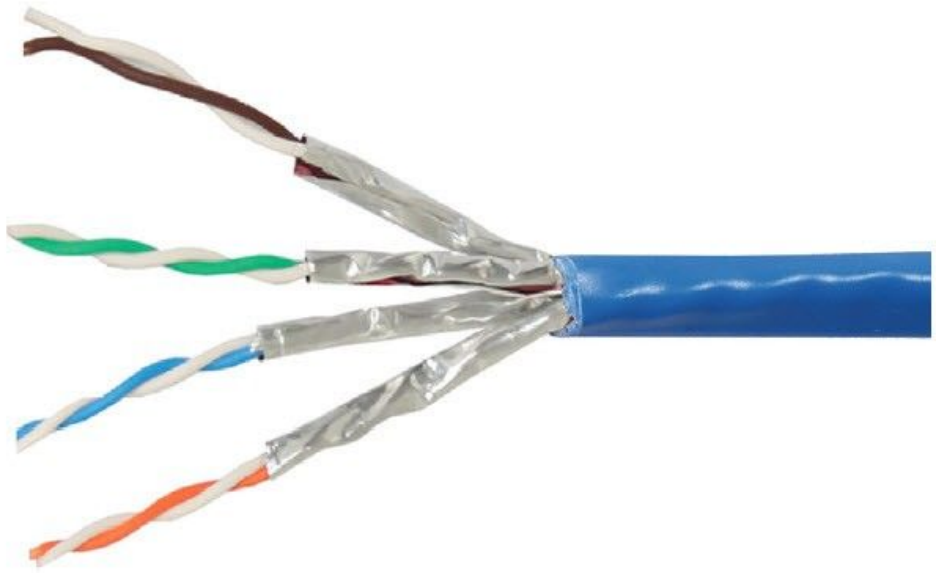
PowerMAX+-EURO Cat.6A U/FTP 23AWG LSZH Cable

DINTEK PowerMAX+™ CAT.6A U/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 U/FTP cable minimizes alien crosstalk, provides excellent signal isolation and provides superior electromagnetic interference protection.



Applications

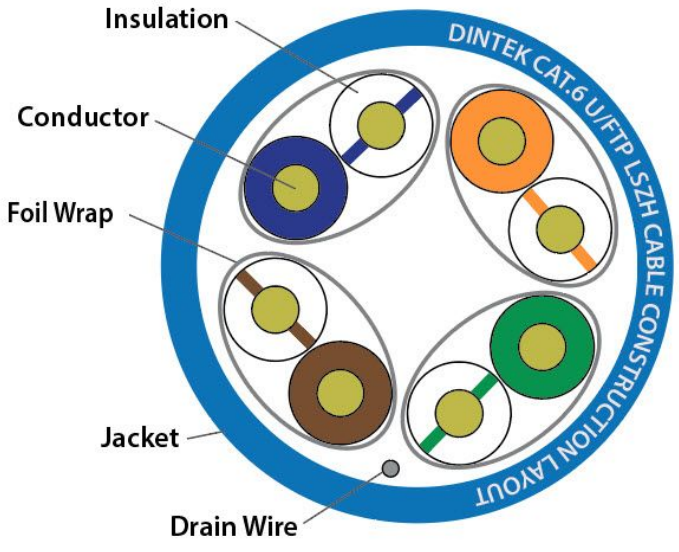
- 10GBASE-T Ethernet
- 100BASE-TX Fast Ethernet
- 1000BASE-TX Gigabit Ethernet
- 1000BASE-T Gigabit Ethernet
- 10BASE-TX Ethernet
- ATM CB1G
- 155/622 Mbps ATM
- 100 Mbps TP-PMD
- 100VG-AnyLAN

Standards Conformance

- ANSI/TIA-568-2.D Cat.6A
- ISO/IEC 2nd Edition 11801 Class EA
- CENELEC EN 50173-1, CENELEC EN 50288-10-1
- IEC 3rd Edition 61935-1, IEC 2nd Edition 61156-5
- CPR Class : Class Dca-s1a,d1,a1
- EN 13501-6:2014
- EN 50575:2014 including amendment A1 :2016
- Flame retardancy is verified according to IEC 60332-1-2
- RoHS compliance for the requirement of European Union issued directive 2011/65/EU.
- PoE++ & 4PPoE - IEEE 802.3bt level 3 & 4

Independently Verified Certifications

DELTA Attestation of Conformity - No. 2017-1020



Cable Features

- Conductor sizes for Cat.6A are set at 23AWG.
- By keeping the gauge size of the conductor larger, there is less heat generation caused and less drop of voltage over distance.
- Exceeds current ANSI/TIA and ISO Standards for performance.
- Capable of handling the latest ver. of power over Ethernet
- Tested and certified by Delta Laboratories for use within the Euopean Union Countries

Performance Statistics

Frequency Mhz	Insertion Loss dB / 100mtrs	NEXT (dB)	PS NEXT (dB)
1	2.1*	74.3*	72.3*
10	5.9*	59.3*	57.3*
100	19.1*	44.3*	42.3*
200	27.6*	40.8*	37.8*
250	31.1*	38.3*	36.3*
300	34.3*	37.1*	35.1*
400	40.1*	35.3*	33.3*
500	45.3*	33.8*	31.8*

The asterisked (*) value are for information only. The minimum Next coupling loss for any pair combination at room temperature is to be greater than the value determined using the formula: NEXT≧ 31-50LOG10(f MHZ/330)dB

Technical Specifications

Construction		
Conductor		
Material		Bare Copper
Wire Size		23AWG
Insulation		
Material		Foam-Skin PE
Thickness		Nominal:0.42
Colors		Blue/White-Blue | Orange/White-Orange | Green/White-Green | Brown/White-Brown
Unaged Elongation (%)		Min.100%
Unaged Tensile Strength		0.816 Kgf/mm²
Screen Material		Individual foil around each pair
Jacket		
Material		Flame Retardant LSZH
Thickness		Nominal: 0.50 mm
Diameter		Nominal: 7.3 mm
Color		Blue
		CPR Class Dca-s1a,d1,a1
Drain Wire		26AWG Stranded Tinned Copper
Physical Ranges		
Insulation		
Min. Tension Strength		
	Before Aging	0.816 Kgf/mm²
Min Elongation (%)		
	Before Aging	Min.100%
Jacket		
Min. Tension Strength		
	Before Aging	Min. 0.918 Kgf/mm²
	After Aging	70%(LSZH) at 100°C for 168Hrs
Min Elongation (%)		
	Before Aging	Min. 125%
	After Aging	75%(LSZH) at 100°C for 168Hrs
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		Max. 160 pF/100m
Dielectric Strength of Insulation		AC 1.7 KV for 2 s
Insulation Resistance Test		Min. 5000MΩ/Km
Mutual Capacitance		Max. 5600 pF/100m
Impedance 1~100MHz		100Ω ± 15%
Impedance 100~250MHz		100Ω ± 22%
Impedance 251~500MHz		100Ω ± 25%

DINTEK Electronic Limited
5F., No.8, Ln. 97, Wugong Rd.
Xinzhuang Dist., New Taipei City 242
Taiwan (R.O.C.)
P: Office: +886-2-22997898 **E-mail:** sales@dintek.com.tw **W:** www.dintek.com.tw

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