

Publish Date: 24.08.2020 | Rev no: 10

PowerMAX+ Blue Cat.6A U/FTP 23AWG LSZH Cable - 305Mtr

DINTEK's PowerMAX+™ Blue Cat.6A U/FTP 23AWG LSZH cable is the ideal solution when requiring a high performance twisted pair cabling for your network LAN communications. Utilizing LSZH jacketing and adhering to all fire rating standards including European Dca standards our LSZH PowerMAX+™ LSZH cable minimizes risk from the after-effects of an electrical fire like gas and smoke inhalation.

The DINTEK PowerMAX+™ Cat.6A solution is guaranteed to exceed ClassE_A channel specifications as set down in international standards. 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.

Features

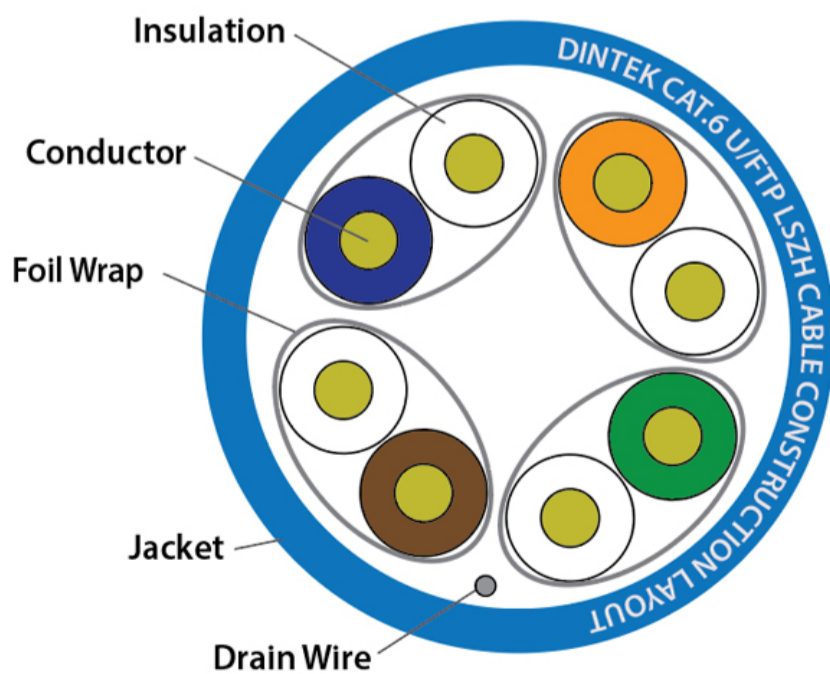
- By keeping the gauge size of the conductor larger, there is less heat generation caused and less drop of voltage over distance
- Exceeds current ANSI/TIA and ISO standards for performance
- Tested and certified for use within the EU Countries

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

Independent Verified Certifications

- DELTA Dca Attestation of Conformity - No. 2017-1020



Applications

- 10GBASE-T Ethernet | 1GBASE-T Ethernet | 100BASE-T Ethernet
- 155/622Mbps 1.2/2.4 Gbps ATM
- 550MHz Broadband Video | Voice; T1; ISDN

Performance Statistics

Frequency Mhz	Insertion Loss dB/100mtrs	NEXT (dB)	PS NEXT (dB)
1	2.1*	74.3*	72.3*
4	3.8	66.3	
10	5.9*	59.3*	57.3*
16	7.5	57.2	
20	8.4	55.8	
31.25	10.5	52.9	
62.5	15	48.4	
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: $NEXT \geq 31-50 \log_{10}(f \text{ MHz}/330) \text{ dB}$

Ordering Information				
Product Number	Product Name	Jacket Type	Color	Length Qty
1105-06022	PowerMAX+ Cat.6A U/FTP 23AWG LSZH Cable	LSZH	Blue	305m / Reel

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/mm ²
Screen Material	Individual foil around each pair
Jacket	
Material	Flame Retardant LSZH
Thickness	Nominal: 0.50 mm
Diameter	Nominal: 7.3 mm
Color	Blue
Fire Rated Class	CPR Class Dca - s1a,d1,a1
Drain Wire	26AWG Stranded Tinned Copper

Physical Ranges

Insulation	
Min. Tension Strength	Before Aging : 0.816 Kgf/mm ²
Min Elongation (%)	Before Aging : Min 100%
Jacket	
Min. Tension Strength	Before Aging : Min. 0.918 Kgf/mm ² After Aging : 70% (LSZH) at 100°C for 168Hrs
Min Elongation (%)	Before Aging : Min. 125% After Aging : 75% (LSZH) at 100°C for 168Hrs
Cold Bend Test	-20 ± 2°C 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	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 Impedance 100-250MHz Impedance 251~500MHz	100Ω ± 15% 100Ω ± 22% 100Ω ± 25%

DINTEK Electronic Limited

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

1105-06022