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## PowerMAX-EURO Cat.6 U/UTP 23AWG LSZH Gray 500M

PowerMAX-EURO™ Cat6 U/UTP Cable - 500mtr 23AWG LSZH Gray - E<sub>ca</sub> Certified is custom made for the European market and has been Delta certified for use within the European union.

The DINTEK PowerMAX-EURO™ Category 6 solution is guaranteed to exceed ClasseE channel specifications as set down in International standards. Our PowerMAX-EURO™ solution comprises Category 6 component compliant patch panels, keystones and patch cords. When combined with DINTEK's E<sub>ca</sub> certified Category 6 U/UTP cable, an end-to-end channel exists that maximizes data throughput and provides headroom for all future technologies operating beyond one Gigabit.

### Applications

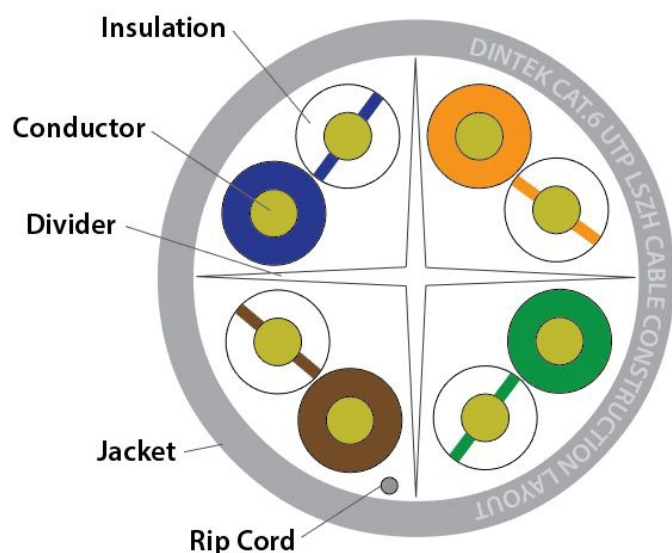
- Voice; T1; ISDN
- 100BASE-T Ethernet (IEEE802.3)
- 155/622Mbps 1.2/2.4 Gbps ATM
- 1000Mbps Gigabit Ethernet
- 550MHz Broadband Video

### Standards Conformance

- ISO/IEC11801 2nd edition CLASS E
- ANSI/TIA-568-2.D standard
- CENELEC EN 50173-1,CENELEC
- PoE++ & 4PPoE - IEEE 802.3bt level 3 & 4
- EN 50575:2014 including amendment A1 :2016
- EN 60332-1-2:2004 including amendment A 1 :2015
- EN 13501-6:2014

### Independently Verified Certifications

- ETL Verified to ANSI/TIA-568.2-D Cat6 - No. 11012547CRT-001
- Delta Cables for use in construction works.
- Reaction to Fire Classification E<sub>ca</sub> - No. 2016-719
- Technical Report - DEL TA-1601080, DANAK-19/17248
- EC Cabling product ID: 6123



### Cable Features

- Conductor sizes for Cat.6 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

### Performance Statistics

Frequency Mhz	Insertion Loss dB / 100mtrs	NEXT (dB)	Return Loss (dB)
1	2.1	75.0	20
4	3.8	66.3	23
10	6.0	60.3	25
16	7.6	57.2	25
20	8.5	55.8	25
31.25	10.7	52.9	23.6
62.5	15.5	48.4	21.5
100	19.9	45.3	20.1
200	29.1	40.8	18
250	33.0	39.3	17.3

## Technical Specifications

### Construction

#### Conductor

Material	Bare Copper
Wire Size	23AWG

#### Insulation

Material	PE
Thickness	0.186mm
Diameter	0.973mm ± 0.05
Colors	Blue/White-Blue   Orange/White-Orange   Green/White-Green   Brown/White-Brown
Unaged Elongation (%)	Min. 300%
Unaged Tensile Strength	2400 psi

#### Jacket

Material	LSZH
Thickness	AVG 0.6mm
Diameter	6.1 ± 0.3mm
Color	Gray
	Fire Classification E <sub>ca</sub>

### Physical Ranges

#### Insulation

Min. Tension Strength	Before Aging	2400 psi
	After Aging	75% before aging (100°C X 48hrs)
Min Elongation (%)	Before Aging	300%
	After Aging	75% before aging (100°C X 48hrs)

#### Jacket

Min. Tension Strength	Before Aging	1300
	After Aging	85% before aging (100°C X 168hrs)
Min Elongation (%)	Before Aging	Min. 100%
	After Aging	50% before aging (100°C X 168hrs)
Cold Bend Test		-20 ± 2°C x 4hrs no. crack
Dielectric Strength		AC 1.7 KV for 2Sec
Min. Bending Radius		50mm
Max. Pulling Tension		25 lbs
Installation Temperature		-10°C to +60°C
Operating Temperature		-10°C to +60°C

### Electrical

Conductor Resistance	Max. 9.5 Ω/100m at 20°C
DC Resistance Unbalance	Max. 4%
Pair-to-Ground Capacitance Unbalance	Max. 1600 pF/km
Dielectric Strength of Insulation	AC 1.7 KV for 2Sec
Insulation Resistance Test	Min. 5000 MΩ·Km
Mutual Capacitance	Max. 5600 pF/100m
Impedance 1~100MHz	100Ω ± 15%
Impedance 100~250MHz	100Ω ± 22%

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