

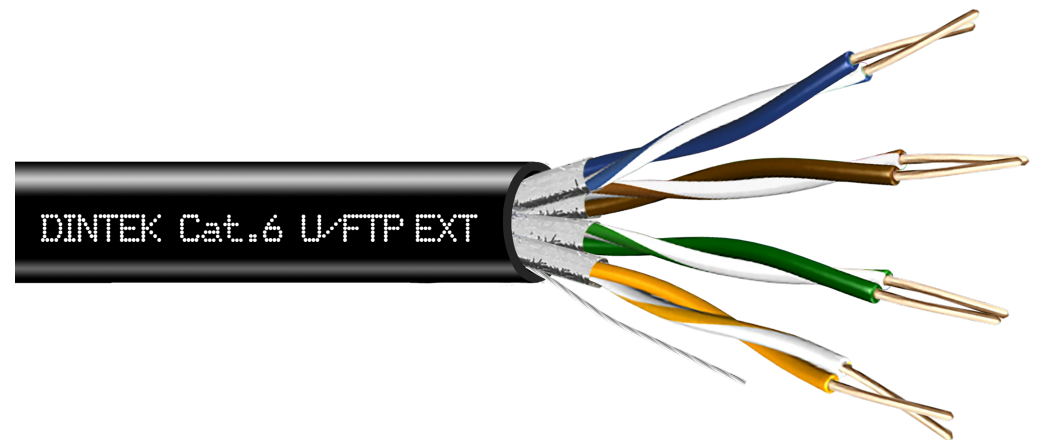
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PowerMAX Exterior Cat.6 U/FTP 23AWG Cable

DINTEK PowerMAX™ Category 6 4 Pair Exterior (Industrial) U/FTP cable, has been designed to support high speed Gigabit data transmission systems to a distance not exceeding 100mtrs.

For Outdoor or Conduit Duct Applications, this cable is part of the PowerMAX™ System range of products, that have been designed based on the PowerSum principle of crosstalk measurement and testing.

When combined as an end to end solution, the PowerMAX™ system, when installed by a certified installer can be warranted for 25yrs.

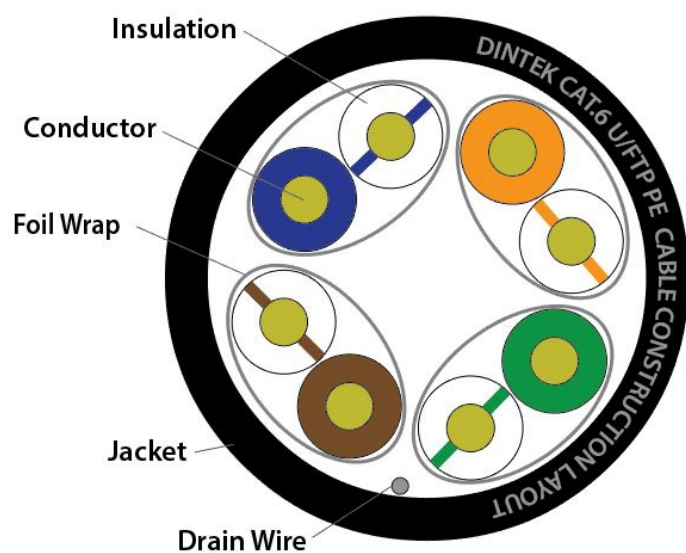


Applications

- For Outdoor or Conduit Duct Applications
- Voice; T1; ISDN
- 10BASE-T (IEEE 802.3)
- 100BASE-T Ethernet (IEEE802.3)
- 155/622Mbps 1.2/2.4 Gbps ATM
- 1000Mbps Gigabit Ethernet
- 550MHz Broadband Video

Standards Conformance

- ANSI/TIA-568-C.2 Cat.6
- 2nd Edition ISO/IEC 11801 Class E
- CENELEC EN 50173-1:2007
- 2nd Edition IEC 61156-5, CENELEC EN 50288-5-1
- Products always comply with RoHS and REACH Directives.



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
1103-04001	PowerMAX Exterior Cat.6 U/FTP 23AWG Cable	PE	Black	305m/Reel

Technical Specifications

Construction

Conductor

Material	Solid annealed copper wire
Wire Size	23AWG

Insulation

Material	Foam-Skin PE
Thickness	Nominal: 0.414 mm
Diameter	1.387mm
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 ²
Screen	Aluminum-Mylar tape

Jacket

Material	LDPE
Thickness	Nominal: 0.5 mm
Diameter	Nominal: 7.2 mm
Color	Black
Drain Wire	Tinned copper

Physical Ranges

Insulation

Min. Tension Strength	Before Aging	Min. 0.816 Kgf/mm ²
	After Aging	Min. 0.989 Kgf/mm ²
Min Elongation (%)	Before Aging	Min. 100%
	After Aging	Min. elongation retention:75% - Aging at 100°C for 168Hrs

Jacket

Min. Tension Strength	Before Aging	Min. 0.989 Kgf/mm ²
	After Aging	Min. tensile strength retention:75% - Aging at 100°C for 168Hrs
Min Elongation (%)	Before Aging	Min.350%
	After Aging	Min. elongation retention:75% - Aging at 100°C for 168Hrs
Dielectric Strength	1200 V dc or 850 V ac / 2 seconds	
Min. Bending Radius	26mm	
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	DC 500V / 1min. or AC 350V / 1min
Insulation Resistance Test	Min. 5000 MΩ/m
Mutual Capacitance	Max. 5600 pF/100m
Impedance 1~100MHz	100Ω ± 15%
Impedance 100~250MHz	100Ω ± 22%

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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