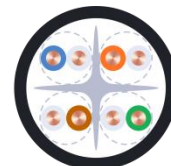




Category 6 U/UTP External Grade 250MHz 100Ω Networking Data Cable



For illustrative purposes only. Not to scale. Stranding & proportion may vary.

Document Information

Drawing Number	LCM181022A-V1
Date	22/10/2018
Design Type	IEC 61156-5 & EN 50288-6
Anixter Part No.	CM-00424UTP-6-DUCT

Cable Construction

23 AWG Solid Plain Annealed Copper Conductor
(IEC 60228 Class 1)

Extruded PE Insulation
(Polyethylene)

2 Cores twisted together to form a Pair

4 Pairs laid up around Central Divider
X-Shaped Spline separates pairs for reduced crosstalk and consistent form

Extruded PE Outer Sheath*
(Polyethylene)

Colours & Identification

Pair Identification	Outer Sheath Colour
White/Blue	White/Orange
White/Green	White/Brown

Nominal Dimensions

Conductor	23	AWG
Insulation Diameter	1.04	mm
Outer Sheath Diameter	6.00	mm

Dimensions are theoretical nominals calculated prior to manufacture.

Properties & Standards

Applicable Standards

EIA/TIA 568-c
ISO/IEC 11801 (2nd Ed.)
IEC 61156-5
EN 50173
EN 50288-6-1

Physical

Bending Radius (No Load / Under Load)	≥40mm / ≥80mm
Nominal Cable Weight	36 kg/km
Tensile Force	100 N

Temperature

Operating Temperature Range	-20°C to +60°C
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Electrical

DC Loop Resistance	≤165	Ω/km
Resistance Unbalance	≤2	%
Insulation Resistance (500 V)	≥2000	MΩ/km
Nominal Capacitance (800Hz)	43	nF/km
Capacitance Unbalance (Pair to Ground)	≤1500	pF/km
Return Loss (100 MHz)	20.1	dB
Return Loss (250 MHz)	8.47	dB
Nominal velocity of propagation	66	%
Propagation delay	≤427	ns/100m
Delay Skew	≤12	ns/100m

Properties and Standards may be indicative prior to manufacture and testing.

Draka Part No 60011280

*Option of LSZH/PE Double Sheath



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F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1.0	2.1	75.0	72.0	67.0	65.0	20.0
10.0	6.0	60.0	57.0	47.0	45.0	25.0
16.0	7.6	57.0	54.0	43.0	41.0	25.0
20.0	8.5	56.0	53.0	41.0	39.0	25.0
31.2	10.7	53.0	50.0	37.0	35.0	24.0
62.5	15.5	48.0	45.0	31.0	29.0	22.0
100	19.9	45.0	42.0	27.0	25.0	20.0
200	29.2	41.0	38.0	21.0	19.0	18.0
250	33.0	39.0	36.0	19.0	17.0	17.0

