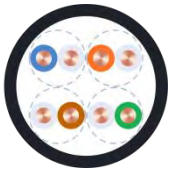
Category 5e U/UTP External Grade
100MHz 100Ω Networking Data Cable



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

Document **Information**

Drawing Number	LCM181022B-V1
Date	22/10/2018
Design Type	IEC 61156-5 & EN 50288-2-1
Anixter Part No.	CM-00424UTP-5E-DUCT

Cable **Construction**

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

Extruded PE Insulation
(Polyethylene)

2 Cores twisted together to form a Pair

4 Twisted Pairs Laid Up

Extruded PE Outer Sheath*
(Polyethylene)

Colours & **Identification**

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

Nominal **Dimensions**

Conductor	24	AWG
Insulation Diameter	0.98	mm
Outer Sheath Diameter	4.85	mm

Dimensions are theoretical nominals calculated prior to manufacture.

Properties & **Standards**

Applicable Standards
ISO/IEC 11801 (2nd Ed.)
IEC 61156-5
EN 50173
EN 50288-2-1

Physical

Bending Radius (No Load / Under Load)	8 x OD / 12 x OD
Nominal Tensile Strength	16.9 ± 0.4 Mpa

Temperature

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

Electrical

DC Loop Resistance	≤169	Ω/km
Resistance Unbalance	≤2	%
Insulation Resistance (500 V)	≥2000	MΩ/km
Nominal Capacitance (800Hz)	50	nF/km
Capacitance Unbalance (Pair to Ground)	≤1500	pF/km
Return Loss (100 MHz)	23.0	dB
Nominal velocity of propagation	66	%
Propagation delay	≤427	ns/100m
Delay Skew	≤45	ns/100m

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

Draka Part No 60011642
*Option of LSZH/PE Double Sheath

MANUFACTURED IN GREAT BRITAIN CE RoHS

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1.0	2.0	65	62	68	65	20
4.0	3.7	56	53	56	53	23
10.0	6.0	50	47	48	45	25
16.0	7.6	47	44	44	41	25
20.0	8.5	45	42	42	39	25
31.2	10.7	40	40	38	35	24
62.5	15.7	38	35	32	29	22
100	19.9	35	32	28	25	20