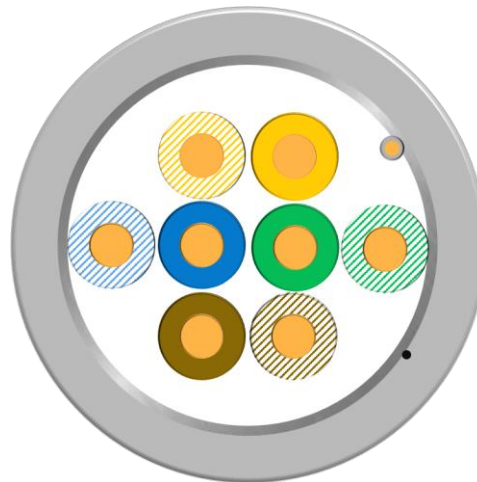


Draka UC300 Cat. 5e F/UTP 24 AWG PVC & LSZH

Ethernet cable up to 100 MHz



Application

Generic cabling systems
 Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
 IEEE 802.3 10Base-T; 100Base-T; 1000Base-T
 IEEE 802.5 16 MB; ISDN; TPDDI; ATM
 IEEE 802.3af (PoE); IEEE 802.3at (PoE+)

Standards

ANSI EIA/TIA 568-D.2: 2018;
 ISO/IEC 11801-1: 2017 / ISO/IEC 11801-2: 2017
 IEC 61156-5: 2012
 EN 50173-1: 2011 / EN 50173-2: 2007 including amendment A1: 2010
 EN 50288-2-1: 2013

Construction

Conductor	Solid copper wire Nom. $\geq \varnothing 0.492$ mm (24AWG)
Insulation	PE, Nom. $\varnothing 0.94/0.98$ mm
Twisting	2 cores to the pair
Cable Lay Up	4 x pairs to the core
Overall Screen	Aluminum laminated foil with tinned copper drain wire (0.4 mm)
Sheath / Color	PVC & LSZH: GREY (RAL7035);
Outer Diameter	Nom. $\varnothing 5.8$ mm
Approximate Weight	Nom. 36.0 kg/km

Mechanical properties

Bend radius	With Load	$\geq 8 \times O.D$
	No Load	$\geq 4 \times O.D$
Temperature range	During operation	-20°C to +60°C
	During installation	0°C to +50°C
Maximum Pulling Force	During installation	100 N

Electrical properties

Mean Characteristic Impedance	1-100 MHz	$100 \pm 15 \Omega$
DC Loop Resistance		$\leq 187.6 \Omega/km$
DC Resistance Unbalance		$\leq 5\%$
Mutual Capacitance (@1 kHz)		$\leq 5.6 \text{ nF}/100m$
Capacitance unbalance	Pair to ground	$\leq 330 \text{ pF}/100m$
Velocity of Propagation		Nom. 65%
Propagation Delay (@100 MHz)		$\leq 538.0 \text{ ns}/100m$
Delay Skew		$\leq 45 \text{ ns}/100m$

Freq. (MHz)	Max. Attenuation (dB)	Min. NEXT (dB)	Min. PS-NEXT (dB)	Min. ACR-F (dB)	Min. PS-ACRF (dB)	Min. Return Loss (dB)
1.0	2.0	65.3	62.3	63.8	60.8	20.0
4.0	4.1	56.3	53.3	51.8	48.8	23.0
16.0	8.2	47.2	44.2	39.7	36.7	25.0
25.0	10.4	44.3	41.3	35.8	32.8	24.3
62.5	17.0	38.4	35.4	27.9	24.9	21.5
100.0	22.0	35.3	32.3	23.8	20.8	20.1

Note1: All tests include 401 points swept frequency measurements

Note2: All electrical characteristics are given at 20°C

note3: All above stated values are nominal and subject to changes

Note4: Transmission performance based on 100 m (328 ft)

Fire Rating

PVC	IEC 60332-1-1: 2015; IEC 60332-1-2: 2015;
LSZH	IEC 60332-1-1: 2015; IEC 60332-1-2: 2015; IEC 60754-1: 2011; IEC 60754-2: 2011; IEC 61034-2: 2013

Ordering Information

SAP 1C	UC P/N	Product Description	P.U
60067269	53025	UC300 Cat 5e FUTP 24 AWG PVC GREY	305 m/box
60067557	53041	UC300 Cat 5e FUTP 24 AWG LSZH GREY	305 m/box

Marking:

Marked in 1 meter intervals as follows:

DRAKA UC300 F/UTP <SHEATH> CAT 5e CABLE P/N <PART NUMBER> VERIFIED TO EN 50288 ISO/IEC 11801 ANSI/TIA-568-C.2 <FC> <BATCHCODE> <XXX>M

<SHEATH>: PVC / LSZH

<PART NUMBER>: Cable part number

<FC>: Draka defined factory Code

<BATCHCODE>: Factory defined tracking code MM/YYYY or WW/YYYY

<XXX>: Increasing length marking by 1 metre

Logistic

Packing:

Reel Box.

Delivery Lengths:

305m per box.

Enquiries

Please contact our local sales office or mms.asia@prysmiangroup.com

Multimedia Solutions is the data communication portfolio of Prysmian Group and comprises all the necessary portfolio of cable solutions for data communication.

Ask about UC CONNECT for a complete Structure Cabling Solutions with 25 Years System Warranty.

Visit www.DrakaUC.com for more information.

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