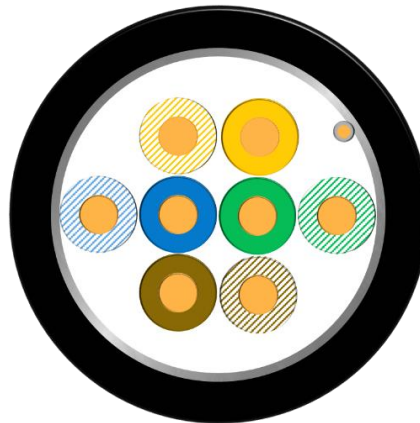
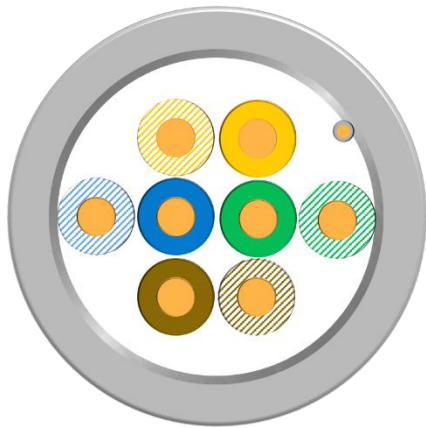


Draka UC300 Cat. 5e F/UTP 24 AWG

Ethernet cable up to 100MHz



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-C.2; ISO/IEC 11801 2nd Ed.; IEC 61156-5 2nd Ed.; EN 50173-1; EN 50288

Construction

Conductor	Solid copper wire Nom. $\geq \varnothing 0.492$ mm (24AWG)
Insulation	PE, Nom. $\varnothing 0.965$ mm, Min. Average Thickness: 0.21mm
Twisting	2 cores to the pair
Cable Lay Up	4 pairs to the core
Overall Screen	Aluminum Laminated Foil with Tinned copper drain wire (0.4 mm)
Sheath	PVC; alternatives LSZH and PE
Sheath Color	PVC alt. LSZH: GREY (RAL7035); PE: BLACK
Outer Diameter	Nom. $\varnothing 6.0$ mm
Approximate Weight	Nom. 46.3 (PVC), 43.8 (LSZH) and 33.6 (PE) kg/km

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Mechanical properties

Minimum Bending radius	With Load	$\geq 8 \times \text{O.D}$
	No Load	$\geq 4 \times \text{O.D}$
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

Characteristic Impedance (1-100 MHz)		$100 \pm 15 \Omega$
DC Loop Resistance		$\leq 187.6 \Omega/\text{km}$
DC Resistance Unbalance		$\leq 5\%$
Mutual Capacitance (@1 kHz)		$\leq 5.6 \text{ nF}/100\text{m}$
Capacitance Unbalance	Pair to ground	$\leq 330 \text{ pF}/100\text{m}$
Velocity of Propagation		Nom. 65%
Propagation Delay (@100 MHz)		$\leq 538.0 \text{ ns}/100\text{m}$
Delay Skew		$\leq 45.0 \text{ ns}/100\text{m}$

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
10.0	6.5	50.3	47.3	43.8	40.8	25.0
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
LSZH	IEC 60332-1; IEC 60754-1& -2; IEC 61034
LSFRZH	IEC 60332-1; IEC 60332-3-24; IEC 60754-1& -2; IEC 61034

Draka UC300 Cat. 5e F/UTP 24 AWG

Order Information

SAP 1C	UC P/N	Product Description	P.U
60011026	53025	UC 300 Cat5e F/UTP 24 AWG PVC, Indoor	305m/box
60011534	53041	UC 300 Cat5e F/UTP 24 AWG LSZH, Indoor	305m/box
60010243	53035	UC 300 Cat5e F/UTP 24 AWG PE, Outdoor	500m/reel
TBA	53048	UC 300 Cat5e F/UTP 24 AWG LSFRZH	500m/reel

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 / LSFRZH

<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:

PVC / LSZH: Reelex Box I; PE / LSFRZH: Wooden Drum.

Delivery Lengths:

PVC / LSZH: 305m per box; PE / LSFRZH: 500m per drum.

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.

Draka UC300 Cat. 5e F/UTP 24 AWG

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