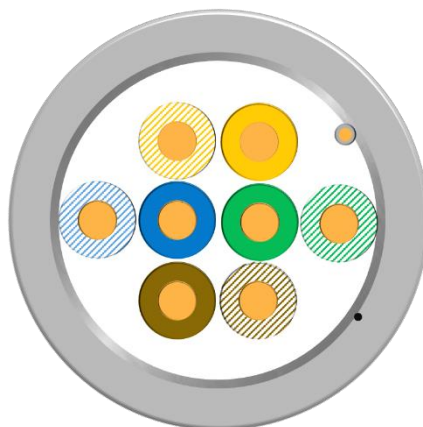# Draka UC300 Cat.5e F/UTP 24AWG LSZH & PVC

(Only for reference)

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/TIA 568.2-D
ISO/IEC 11801-1/2
IEC 61156-5
EN 50173-1
EN 50288-2-1

Construction

Conductor	Solid copper wire Nom. ≥ Ø 0.492 mm (24AWG)
Insulation	PE
Twisting	2 cores to the pair
Cable Lay Up	4 pairs to the core
Overall Screen	Aluminum laminated foil with tinned copper drain wire
Sheath / Colour	PVC & LSZH (GREY). (Ripcord Underneath)
Outer Diameter	Nom. Ø 5.8 mm
Approximate Weight	Nom. 36.0 kg/km

Mechanical properties

Bend radius	With Load	≥ 8 x O. D
	No Load	≥ 4 x 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 ± 15 Ω
DC Loop Resistance		≤ 187.6 Ω/km
DC Resistance Unbalance		≤ 5%
Mutual Capacitance (@1 kHz)		≤ 5.6 nF/100m
Capacitance Unbalance	Pair to ground	≤ 330 pF/100m
Velocity of Propagation		Nom. 65%
Propagation Delay (@250 MHz)		≤ 536.0 ns/100m
Delay Skew		≤ 45 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
10.0	6.5	50.3	47.3	43.8	40.8	25.0
25.0	10.4	44.3	41.3	35.8	32.8	24.3
31.25	11.7	42.9	39.9	33.9	30.9	23.6
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℃
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 61034-2

Ordering Information

UC Part Number	SAP1C	Description	Packaging
53025GY-3H	60093907	DRAKA UCDATA CATEGORY CABLE UC300 CAT.5E FUTP 4 PAIR 24AWG PVC GREY IEC 60332-1	305 m/reel
53041GY-3H	60093908	DRAKA UCDATA CATEGORY CABLE UC300 CAT.5E FUTP 4 PAIR 24AWG LSZH GREY IEC 60332-1, IEC 60754-1&2, IEC 61034	305 m/reel

Marking:

Marked in 1-meter intervals as follows:

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

<**SHEATH**>: PVC / LSZH
<**UC 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
Marking size: 3.0±0.5 mm, Marking color: White on black sheath, black on other color sheath

Logistic

Packing:
Wooden Drum.
Delivery Lengths:
305m per drum.

Enquiries

Please contact our local sales office or email to: 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 Structured Cabling Solutions with 25 Years System Warranty.

Visit www.drakauc.com for more information.