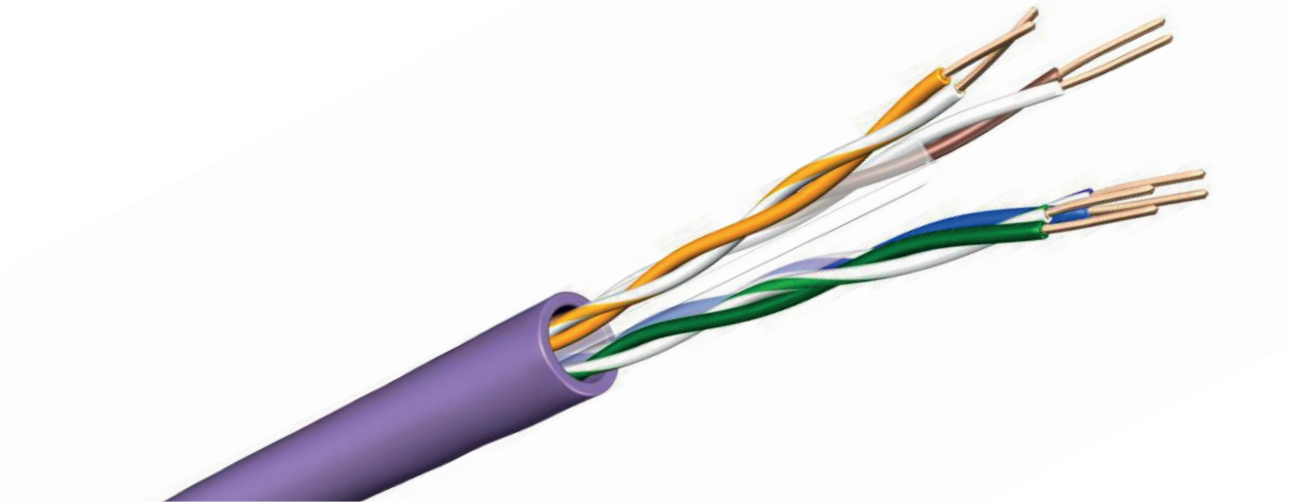




Product Data Sheet

Draka Cat 6 U/UTP 24AWG Solid Data Cable
LSOH Dca Violet, 305m

Description



The Draka UC400 Cat.6 U/UTP SD LSHF Dca is a high-performance cable designed to meet the stringent demands of today's data communication networks. This unshielded twisted pair (UTP) cable offers Category 6 performance for reliable network connectivity, making it an ideal solution for both commercial and industrial environments.

Product	SKU
DRAKA CAT 6 U/UTP 24AWG SOLID DATA CABLE LSOH DCA VIOLET, 305M	105451

Key Benefits

- **Category 6 Compliance:** Ensures high-speed data transfer rates suitable for Gigabit Ethernet and other network protocols, supporting bandwidths up to 250 MHz.
- **Unshielded Design:** The U/UTP configuration minimizes bulk and enhances flexibility, making installation easier in tight spaces and complex routing scenarios.
- **Low Smoke Halogen Free (LSHF):** Manufactured with a low smoke zero halogen sheath, it significantly reduces the amount of toxic and corrosive gas emitted during combustion. This feature is crucial for maintaining safer environments in case of fire.
- **Standard Displacement:** Designed for horizontal and backbone installations, it is ideal for use in a variety of architectural setups including data centers, office buildings, and industrial zones.
- **Euroclass Dca Certification:** Complies with European standards for fire safety, carrying a Dca rating that indicates a moderate degree of fire safety combined with lower smoke production.
- **Robust and Durable:** Engineered for enhanced durability and resistance to environmental factors, ensuring long-term performance and reliability.



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Technical Specification

Draka Cat 6 U/UTP 24AWG Solid Data Cable LSOH Dca Violet, 305m Specification

Construction	Propagation delay: Nominal 518 ns/100m
Conductor: Bare copper AWG24	Delay skew: Nominal 20 ns/100m
Insulation: Polyethylene, Ø 0.95 mm nom	Test voltage (DC, 1 min) Core/Core: 1000 V
Twisting: 2 cores to the pair	Coupling attenuation: 40dB
Cable lay up: 4 pairs to the core non-metallic cross separator (spline)	Flame Resistance
Sheath: LSHF violet / OD: 5.2mm	EN 50399: Class Dca s2 d2 a1
Mechanical properties	LSHF: IEC 60332-1; IEC 60754-2; IEC 61034
Minimum bending radius: Installation – 8 x D Installed – 4 x D	Standards
Temperature range: during operation – -20°C up to + 60°C during installation – 0°C up to + 50°C	EIA/TIA 568.2-D
Electrical properties at 20°C	ISO/IEC 11801 2nd ed; IEC 61156-5;
DC loop resistance: 188 Ω /km	EN 50173-1, EN 50288-6-1
Resistance unbalance: < 2%	IEEE 802.3af / at / bt
Insulation resistance (500 V): < 5000 MΩ *km	Application
Capacitance at 800 Hz: Nom. 48 nF/km	Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
Capacitance unbalance (pair to ground): < 1500 pF/km	IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
Mean impedance 100 MHz: 100 ± 5 Ω	IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Nominal velocity of propagation: Approx. 67 %	Power over Ethernet (PoE) / Type 1-4



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Electrical data (nominal) acc. to Cat.6 (at 20°C)

f	Attenuation		NEXT		PS-NEXT		ACR		PS-ACR		ELFEXT		PS-ELFEXT		Return loss	
(MHz)	(dB/100m)		(dB)		(dB)		(dB/100m)		(dB/100m)		(dB/100m)		(dB/100m)		(dB)	
	max.	Nom.	min.	Nom.	min.	Nom.	min.	Nom.	min.	Nom.	min.	Nom.	min.	Nom.	min.	Nom.
1	2.1	1.9	74	78	72	75	72.0	76.1	70.0	73.1	68	82	65	80	20	22
4	3.8	3.8	65	69	63	66	61.2	65.2	59.2	62.2	56	70	53	68	23	22
10	6.0	6.0	59	63	57	60	53.0	57.0	51.0	54.0	48	62	45	60	25	27
16	7.6	7.6	56	60	54	57	48.4	52.3	46.4	49.3	44	58	41	56	25	27
20	8.5	8.5	55	59	53	56	46.5	50.0	44.5	47.0	42	56	39	54	25	27
31.2	10.7	10.7	52	56	50	53	41.3	45.0	39.3	42.0	38	52	35	50	23.6	26
62.5	15.1	15.1	47	51	45	48	31.5	36.0	29.5	33.0	32	46	29	44	21.5	24
100	19.9	19.1	44	48	42	45	24.1	28.9	22.1	25.9	28	42	25	40	20.1	23
125	22.5	21.3	43	47	41	44	20.5	25.2	18.5	22.2	26	40	23	38	19.5	22
155.5	25.4	23.8	42	45	40	42	16.6	21.3	14.6	18.3	24	38	21	36	18.8	21
175	27.1	25.3	41	44	39	41	13.9	19.1	11.9	16.1	23	37	20	35	18.4	21
200	29.2	27.0	40	44	38	41	10.8	16.5	8.8	13.5	22	36	19	34	18	20
250	33.0	32.0	38	42	36	39	5.0	10.0	2.0	7.0	20	34	17	32	17.3	19
300		36.1		41		38		4.8		1.8		32		30		19
400		41.7		39		36		-2.7		-5.7		30		28		18