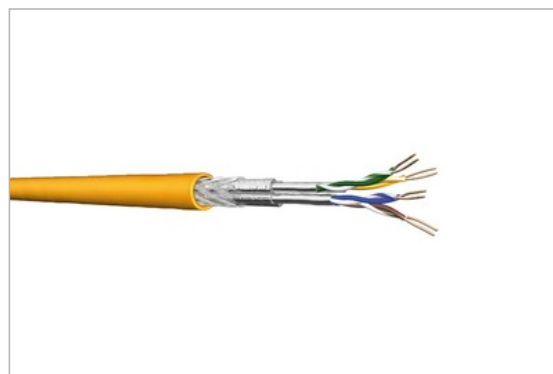


Description

Symmetrical 100 Ω data transmission cables from Universal Cable line UC.. acc. to ISO/IEC 11801, EN 50173 and EIA/TIA 568A are used for high speed data transmission, mainly in secondary and horizontal cabling in standardised, manufacturer-independent local networks (LAN), ranging from Token Ring, Ethernet, ISDN, TPDDI, Fast-Ethernet 100Base-TX to ATM and Gigabit-Ethernet 1000Base-T and CATV. All shielded cables of line UC400 and up are ready for 10 Gigabit Ethernet (IEEE802.3: 10GBase-T).



Application

Primär (Campus), Sekundär (Riser), Tertiär (Horizontal)
IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; ;
25GBase-T up to 30m acc. ISO/IEC TR 11801-9905,
IEEE 802.5
ISDN, TPDDI, ATM, CATV, Broadband-Video,
Power over Ethernet (PoE) / Type 1-4

Standards

EN 50173-1; ISO/IEC 11801; EN 50288-9-1; IEC61156-5;
IEC61156-7
IEEE 802.3af / at / bt

Flame resistance

EN 50399: Class Cca s1a d1 a1
LSHF-FR (LSOH-FR): IEC 60332-1; IEC 60332-3-24; IEC
60754-2; IEC 61034

Technical Data

Construction

Conductor	Bare copper wire AWG22	
Insulation	PE, Ø 1.5 mm	
Twisting	2 cores to the pair	
Pair screen	Al-laminated plastic foil around each pair	
Cable lay up	4 pairs	
Screen	Copper braid, tinned	
Sheath	LSHF-FR Cca, halogen free, fire retardant sheathing material; yellow RAL 1021	

Mechanical properties

Minimum bending radius	Without load	4 x D
	With load	8 x D
Temperature range	During operation	-20°C up to +60°C

	During installation	0°C up to +80°C
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Electrical properties at 20°C

Loop resistance		128 Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	500 V	≥ 5000 MΩ*km
Mutual capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	pair/ground	≤ 1500 pF/km
Characteristic impedance	100 MHz	100 ± 5 Ω
Nominal velocity of propagation		ca. 79%
Propagation delay		450 ns/100m
Delay skew		15 ns/100m
Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m
	at 30 MHz	9 mΩ/m
Coupling attenuation		≥ 85 dB

Nominal Transmission characteristics acc. Cat.7A (at 20°C)

F	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ACRF	PS-ACRF	Return loss
MHZ	dB/100m	dB	dB	dB/100m	dB/100m	dB/100m	dB/100m	dB
1.0	1.7	100	97	98	95	100	97	23
4.0	3.3	100	97	97	94	97	94	26
10.0	5.1	100	97	95	92	95	92	28
16.0	6.5	100	92	94	91	90	87	28
20.0	7.3	100	90	93	90	90	87	28
31.25	9.1	100	90	91	88	90	87	27
62.5	12.8	100	90	87	84	85	82	25
100.0	16.3	100	87	83	80	80	77	23
155	20.3	95	87	75	72	78	75	21
200.0	23.0	95	87	72	69	75	72	21
250.0	25.8	90	87	64	61	69	66	20
300.0	28.3	89	85	61	58	65	62	20
600.0	40.2	85	82	45	42	45	42	20

1000.0	52.1	83	80	31	28	40	37	20
1200.0	57.1	83	80	26	23	35	32	18
1400.0	61,3	81	78	21	18	30	27	17
1500.0	64.1	80	77	16	13	28	25	17

Outerdiameter	7.9 mm
Fire load	620 MJ/km
Weight	66 kg/km
Copper content	40.4
Tensile force	150 N

Art.-No.	Description
UC1500-SS22-4P-CCA	Draka - UC1500 SS22 Cat.7A 25GbE S/FTP LSHF-FR Cca