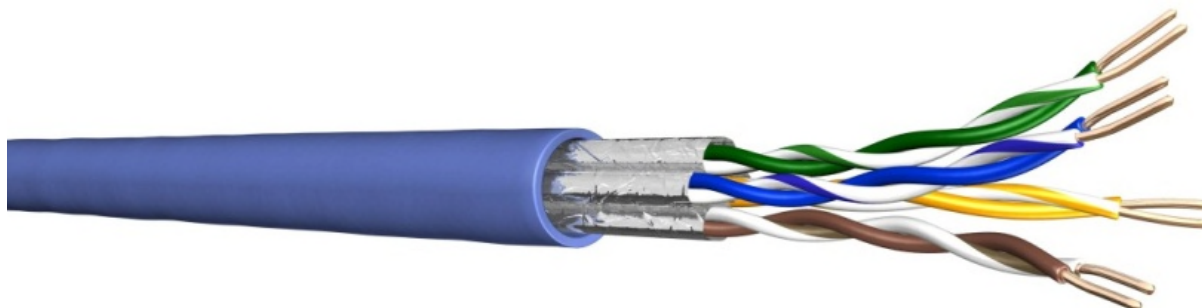


UC LR22 10Gbit U/FTP

U/FTP LONG REACH cable AWG22/1



Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; IEEE 802.5
ISDN, TPDDI, ATM, CATV, IP Cameras, Broadband Video, SOHO-Cabling
Power over Ethernet (PoE) / PoE+
120m range in the Channel E_A for 10Gbit transmissions guaranteed * / **

Standards

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

Fire rating

LSHF (LSOH): IEC 60332-1; IEC 60754-2; IEC 61034; Euro Class Eca

Construction

Conductor	Bare copper wire Ø 0.64 mm (AWG22)
Insulation	PE, Ø 1.6 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs
Pair screen	Al-laminated plastic foil around each pair, drain wire AWG26 tinned
Sheath	Halogen free, fire retardant sheathing material; LSHF, blue RAL 5024

Mechanical Properties

Bending radius	Installation	4 x D
	Installed	8 x D
Temperature range	During operation	-20°C to + 60°C
	During installation	0°C to + 50°C

* 105m Permanent Link PL2 garantiert

** Requires suitable components and patch cable

UC LR22 10Gbit U/FTP

Electrical Properties

at 20°C

DC loop resistance		$\leq 110 \Omega/\text{km}$
Resistance unbalance		$\leq 2\%$
Insulation resistance	(500 V)	$\geq 5000 \text{ M}\Omega \times \text{km}$
Capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair to ground)	$\leq 1200 \text{ pF/km}$
Mean Characteristic impedance	@ 100 MHz	$100 \pm 5 \Omega$
Nominal velocity of propagation		79%
Propagation delay		450 ns/100 m
Delay skew		15 ns/100 m
Transfer impedance	at 1 MHz	$\leq 50 \text{ m}\Omega / \text{m}$
	at 10 MHz	$\leq 100 \text{ m}\Omega / \text{m}$
	at 30 MHz	$\leq 200 \text{ m}\Omega / \text{m}$
Coupling attenuation		$\geq 55 \text{ dB}$
Segregation classification acc. EN 50174-2		„C“

Nominal Transmission characteristics

acc. Cat.6_A at 20°C

f (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1,0	1,8	100	97	98	95	105	103	20
4,0	3,4	100	97	97	94	93	91	23
10,0	5,4	100	97	95	92	85	83	25
16,0	6,8	100	97	93	90	81	79	25
20,0	7,7	100	97	92	89	79	77	25
31,2	9,6	100	97	90	87	75	73	24
62,5	13,7	100	97	86	83	69	67	22
100,0	17,4	100	97	83	80	65	63	20
125,0	18,6	95	92	76	73	63	61	19
155,5	19,5	95	92	75	69	61	59	19
175,0	22,1	92	89	70	67	60	58	18
200,0	25,0	92	89	67	64	59	57	18
250,0	28,1	90	87	62	59	57	55	17
300,0	30,9	89	86	58	55	55	53	17
500,0	37,4	87	84	50	47	52	50	17

UC LR22 10Gbit U/FTP

Product order data

Product code	Length	Brand name	Outer diameter	Euro Class	Fire load	Weight	Copper content	Tensile force
			mm		MJ/km	kg/km		N
60048878	1000	UC LR22 10Gbit U/FTP 4P LSHF	8.1	Eca	673	58	32	140

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