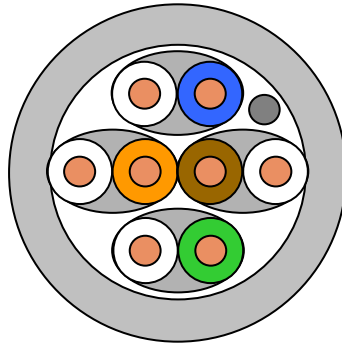


# Cable Category 6A U/FTP LSHF

Part no: 13414 E-no: E4937495



## 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

## Standards

EN 50173-1; EN 50288-5-1

ISO/IEC 11801; IEC 61156-5

TIA/EIA-568-B.2

## Fire rating

PVC : IEC 60332-1

LSHF : IEC 60754-2; IEC 61034, IEC 60332-1

LSHF-FR : IEC 60754-2; IEC 61034, IEC 60332-3-24

## Construction

Conductor	Bare copper wire Ø 0.55 mm (AWG23)
Insulation	PE, Ø 1.4 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs
Pair screen	Al-laminated plastic foil around each pair.
Lay up diameter	Ø 6,1 mm
Drain wire	Tin-coated Ø 0,4mm
Sheath	Flame retardant and halogen free LSHF

## Mechanical Properties

Bending radius	With load	8 x D
	No load	4 x D
Temperature range	During operation	-20°C to + 60°C
	During installation	0°C to + 50°C
Maximum tensile load	During installation(4P/2x4P)	100N/200N
	Installed	No load

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## Electrical Properties

at 20°C

DC loop resistance		≤ 145 Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V)	≥ 5000 MΩxkm
Capacitance	at 800 Hz	Nom. 45 nF/km
Capacitance unbalance	(pair to ground)	≤ 800 pF/km
Mean Characteristic impedance	@ 100 MHz)	100 ± 5 Ω
Nominal velocity of propagation		0,75c
Propagation delay		≤ 500 ns/100 m
Delay skew		≤ 20 ns/100 m
Transfer impedance	at 1 MHz	≤ 50 mΩ /m
	at 10 MHz	≤ 100 mΩ /m
	at 30 MHz	≤ 200 mΩ /m

## Nominal Transmission characteristics

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)
1.0	1.8	100	97	98	95	105	105	-
4.0	3.4	100	97	97	94	105	102	27
10.0	5.4	100	97	95	92	97	94	30
16.0	6.8	100	97	93	90	93	90	30
20.0	7.7	100	97	92	89	91	88	30
31.2	9.6	100	97	90	87	87	84	30
62.5	13.7	100	97	86	83	81	78	30
100.0	17.4	100	97	83	80	77	74	30
125.0	19.5	95	92	75	72	75	72	26
155.5	21.9	94	91	72	69	73	70	26
175.0	23.3	93	90	70	67	72	69	25
200.0	25.0	92	89	67	64	71	68	25
250.0	28.1	90	87	62	59	69	66	24
300.0	30.9	89	86	58	55	67	64	24
400.0	38.3	87	84	48	45	64	61	23
500.0	43.0	86	83	43	40	61	58	22

## Technical data

Part number	Product	Colour	Outer diameter	Fire load	Weight
			mm	MJ/km	kg/km
13314	Cable Category 6A U/FTP LSHF	White	7,3	732	45