

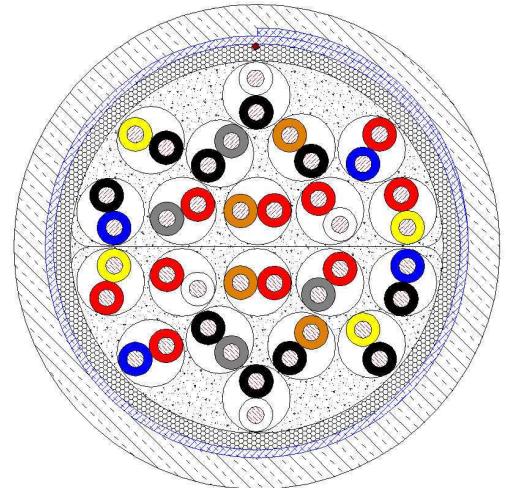


CU-n/ø-BURIED/DUCT-CS (former MXLE) n x 2 x 0.6 or 0.9 pairs

Foam-skin-PE insulated telephone cables, gel filled, moisture barrier sheath – duct/buried outdoor cables

According to spec. Telenor K2-34 edition 3, 2010-06-16

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Changes reserved according to technical progress



Principle drawing
CU-20/0.6-BURIED/DUCT-CS
(former MXLE; A-02YSF(L)2Y)

Application

Used in local networks, suitable for laying in ground or in ducts.

Colour Code

	1	2	3	4	5	6	7	8	9	10
Pairs										
a-wire	red	red	red	red	red	black	black	black	black	black
b-wire	blue	white	yellow	grey	orange	blue	white	yellow	grey	orange

Construction

MXLE	A-02YSF(L)2Y (description based on VDE 0816)
Conductor	copper, solid, 0.6 or 0.9 mm, soft annealed
Insulation	foam-skin-PE (02YS)
Twisting	contains pairs in unit stranding (SZ-stranding)
Filling	interstices continuously filled with low capacitance water-blocking compound
Cable core wrapping	with one plastic water swell tape
Ripcord	Ripcord underneath the sheath
Earth wire	Tinned copper lead on at least 0,2 mm ² is placed with galvanic contact to the screen for cables ≤ 50 pairs
Moisture barrier	laminated sheath formed by an aluminium tape (at least 0.15 mm thick) coated on at least one side with copolymer, and bonded with
Sheath	PE (2Y), black
Sheath Marking (as example)	— '00000' M '00000*' DRAKA 'JJJJ***' CU-20/0.6-BURIED/DUCT-CS 25-139-4812

* 5 marks of the order No.

** year of production



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Mechanical and Thermal Properties

Minimum bending diameter		≥ 15 x outer cable diameter
Temperature range	during operation	-40 °C to + 60 °C
	during laying	-15 °C to + 60 °C
	during storage	-40 °C to + 70 °C
Peel-off strength Al-foil – PE-sheath		0.8 N/mm

Electrical Properties

at 20 °C ± 5 °C

Conductor diameter	mm	0.4	0.6	0.9
Conductor resistance				
individual value	Ω/km	≤ 150	≤ 66.6	≤ 29.0
average value	Ω/km	≤ 144	≤ 63.9	≤ 27.8
Resistance unbalance	%	≤ 4	≤ 2	≤ 2
Insulation resistance	GΩxkm	≥ 5	≥ 5	≥ 5
Mutual capacitance at 800 Hz				
max. individual value*				
5 and 10 pairs	nF/km	52	52	49
20 and more pairs	nF/km	49	49	49
average value**				
5 and 10 pairs	nF/km	45 ± 3	45 ± 3	45 ± 3
20 and more pairs	nF/km	45 ± 2	45 ± 2	45 ± 2
Capacitance unbalance at 800 Hz				
pair to pair max. individual value				
for 2 pairs (1 quad)	pF/km	≤ 800	≤ 800	≤ 800
for 5 pairs	pF/km	≤ 300	≤ 300	≤ 300
for 10 pairs and more	pF/km	≤ 150	≤ 150	≤ 150
pair to earth				
max. individual value	pF/km	3000	3000	3000
80% of values per cable	pF/km	1200	1200	1200
Characteristic impedance	Ω	115 ± 10	110 ± 10	110 ± 10
Attenuation at 1 MHz, max. individual value***	dB/km	≤ 23.4	≤ 16.6	≤ 13.0
Attenuation at 1 MHz, max. average value***	dB/km	≤ 22.9	≤ 16.2	≤ 12.2
NEXT within sub-unit at 1 MHz ≥ 100 m				
min. individual value****	dB	48	48	48
min. average value	dB	58	58	58
PS NEXT min.	dB	37	37	37
ELFEXT within sub-unit at 1 MHz ≥ 100 m				
min. individual value*****	dB	39	39	39
min. average value	dB	56	56	56
PS ELFEXT min.	dB	38	38	38
Dielectric strength test acc. to IEC 60708				
AC test voltage for 1 min at 50 Hz				
conductor to conductor	V	354	354	354
conductor to screen	V	707	707	707

* 2 pairs ≤ 52 nF/km

** not required for 2 pairs

*** a 5 % deviation is accepted for Duct/Buried cables with screen with ≤ 30-pairs

**** NEXT for 2-pair cable shall be minimum 46 dB

***** ELFEXT for 2-pair cable shall be minimum 36 dB



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Additional Properties

Dimension	Outer diameter	Cable weight net	Standard supply length	Drum size flange-Ø	Transport weight gross	Copper content		
	mm	kg/km	m	mm	kg/drum	kg/km		
CU-n/0.6-BURIED/DUCT-CS (former MXLE)								
10 x	13.0	137	2000	K11	355	56		
20 x	15.2	222	2000	K12	565	109		
50 x	22.5	472	2000	K18	1225	268		
100 x	26.7	867	1000	K16	1100	534		
200 x	37.8	1691	1000	K22	2160	1065		
300 x	45.5	2477	1000	K24	3040	1597		
500 x	60.0	3994	500	K24	2560	2660		
1000 x	82.5	7681	250	K24	2480	5318		
CU-n/0.9-BURIED/DUCT-CS (former MXLE)								
10 x	16.0	253	1000	K10	320	122		
20 x	22.5	440	1000	K12	560	242		
50 x	31.0	985	1000	K18	1270	600		