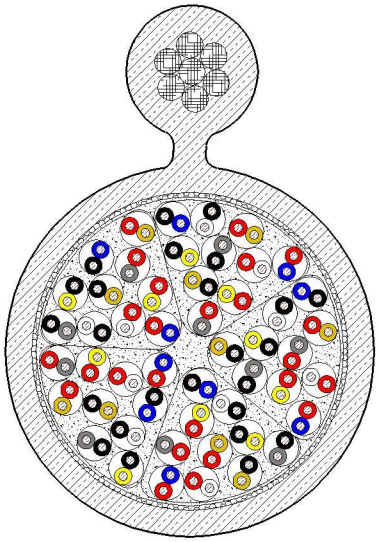
CU-n/ø-AERIAL-SW0,7 or 1,4 (former FXWE/MXWE) n x 2 x 0.6 pairs

Solid-PE or Foam-skin-PE insulated aerial telephone cables, gel filled with suspension strand – 'figure eight' outdoor cables

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



Principle drawing
CU-50/0.6-AERIAL-SW1,4
(former MXWE; A-02YSF2YT)

Application

Used in local networks, suitable for installation on poles.

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

FXWE / MXWE	A-2YF2YT / A-02YSF2YT (description based on VDE 0816)
Conductor	copper, solid, 0.6 mm, soft annealed
Insulation	Solid-PE for FXWE cable (only 1 quad cable) and foam-skin-PE (02YS) for pair cables
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
Sheath	cable core and self-supporting strand covered by a common sheath (figure 8), made of black PE (2Y)
Suspension strand	Consist of 7 galvanized steel wires 0.7 mm or 1.4 mm
Sheath Marking (as example)	—| '00000' M '00000*' DRAKA 'JJJJ**' CU-50/0.6-AERIAL-SW1,4 25-126-2724

* 5 marks of the order No.
** year of production

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Mechanical and Thermal Properties

Minimum bending diameter		≥ 10 x outer cable diameter
Temperature range	during operation	-40℃ to + 60℃
	during laying	-15℃ to + 60℃
	during storage	-40℃ to + 70℃

Electrical Properties

at 20℃ ± 5℃

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

* 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-AERIAL-SW0,7 (former FXWE)								
2 x	6.1 x 12.2	70	1000	K08	97	11		
2 x	6.1 x 12.2	70	300	K06	40	11		
CU-n/0.6-AERIAL-SW0,7 (former MXWE)								
5 x	9.2 x 15.0	106	1000	K09	153	27		
5 x	9.2 x 15.0	106	300	K06	51	27		
10 x	10.7 x 16.7	148	1000	K12	195	54		
CU-n/0.6-AERIAL-SW1,4 (former MXWE)								
10 x	11.2 x 21.2	245	1000	K10	311	54		
20 x	16.0 x 25.5	327	1000	K12	450	107		
50 x	22.5 x 32.4	558	1000	K14	710	266		
100 x	26.0 x 36.0	927	1000	K18	1210	532		