



Aerial cable – short span FXWE/MXWE

**Outdoor
Stranded steel messenger wire
Jelly filled**

Jelly filled pair cable for up to 100 m. aerial suspension on poles. The cable has a strong stranded steel messenger wire. The figure-8 construction ensures easy installation with cable grips attached to the messenger wire. The cable is completely jelly filled to avoid water penetration. All pairs are random cross stranded to give low cross-talk levels. The conductors and 10 pair units are colour coded for easy identification. The outer sheath is made of abrasion resistant polyethylene and marked to show cable type, conductor dimension and number of pairs.

Cable construction

Rev.1.

Number of pairs	Messenger wire 7 x (mm)	Cond. diameter (mm)	Insulation thickness (mm)	Outer sheath thickness (mm)	Overall diameter cable core (mm)	Overall diameter messenger wire (mm)	Step height (mm)	Step width (mm)	Weight (kg/km)
2	0.7	0.6	0.26	1.2	5.2	4.3	2.0	2.0	69
5	0.7	0.6	0.26	1.2	7.8	4.3	2.0	2.0	105
10	0.7	0.6	0.28	1.2	10.1	4.3	2.0	2.0	137
2	1.4	0.6	0.26	1.4	5.2	7.8	3.0	2.5	156
5	1.4	0.6	0.26	1.4	8.2	7.8	3.0	2.5	196
10	1.4	0.6	0.28	1.4	10.1	7.8	3.0	2.5	238
20	1.4	0.6	0.28	1.4	12.9	7.8	3.0	2.5	325
30	1.4	0.6	0.28	1.4	14.6	7.8	3.0	2.5	394
50	1.4	0.6	0.28	1.4	18.3	7.8	3.0	2.5	550
70	1.4	0.6	0.28	1.4	20.9	7.8	3.0	2.5	698
100	1.4	0.6	0.28	1.4	24.4	7.8	3.0	2.5	921

Cable properties

Bending		Temperature window
Minimum bending diameter (cable core)	10 x D	Operation
Repeated bending (EN 187000-507)	100 cycles	Installation
		Storage
Crush (EN 187000-504)	3.000 N	Water penetration
Impact (EN 187000-505)	25 J	(EN 187000-605B)

Tensile strength

Number of pairs, 0.6 mm conductors	2*)	5*)	10*)	2	5	10	20	30	50	70	100
Maximum tensile load, installation (kN)	2.5	2.5	2,5	10	10	10	10	10	10	10	10
Maximum tensile load, operation (kN)	2.5	2.5	2.5	10	10	10	10	10	10	10	10
Number of pairs, 0.9 mm conductors	2*)	2									
Maximum tensile load, installation (kN)	2.5	10									
Maximum tensile load, operation (kN)	2.5	10									

*) Cable with 7x 0.7mmØ messenger wire

Electrical data at 20°C

Conductor diameter (mm)	0.6	0.9
Capacitance , maximum average (nF/km)	2 pairs: - 5-10 pairs: 45±3 ≥20 pairs: 45±2	2 pairs: - 5-10 pairs: 45±3 ≥20 pairs: 45±2
Capacitance , maximum value (nF/km)	2pairs: 52 5-10 pairs: 52 ≥20 pairs: 50	2pairs: 52 5-10 pairs: 50 ≥20 pairs: 49
Capacitance unbalance maximum value (pF/km)	2pairs: 800 5 pairs: 300 ≥10 pairs: 150	2pairs: 800 5 pairs: 300 ≥10 pairs: 100
DC-Resistance , loop, maximum average (ohm/km)	127.8	55.6
DC-Resistance , loop, maximum value (ohm/km)	133.2	58.0
Attenuation at 1 MHz maximum value (dB/km)	16.6	13.0
EL-FEXT , within base unit 1 MHz minimum average (dB)	56	56
NEXT , within base unit 1 MHz minimum average (dB)	58	58
Impedance 1 MHz (ohm)	110±10	110±10

Ordering information

0.6 mm conductors			0.9 mm conductors		
Number of pairs	Art. No.	Cable code	Number of pairs	Art. No.	Cable code
2	600009	A2-0.6 FXWE-45D W0.7	2	600020	L2-0.9 FXWE-45D W0.7
5	600075	A5-0.6 MXWE-45P W0.7	2	600021	L2-0.9 FXWE-45D-W1.4
10	600099	A10-0.6 MXWE-45P W0.7			
2	600017	A2-0.6 FXWE-45D W1.4			
5	600074	A5-0.6 MXWE-45P W1.4			
10	600098	A10-0.6 MXWE-45P W1.4			
20	600122	A20-0.6 MXWE-45P W1.4			
30	600148	A30-0.6 MXWE-45P W1.4			
50	600163	A50-0.6 MXWE-45P W1.4			
70	600189	A70-0.6 MXWE-45P W1.4			
100	600205	A100-0.6 MXWE-45P W1.4			

