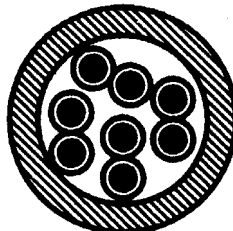




## Duct / Direct burial cable FE/ME

Outdoor  
Jelly filled  
Abrasion resistant

Jelly filled pair cable for duct and direct burial installations. The cable is completely jelly filled to avoid water penetration. To give very low cross-talk, all pairs are random cross stranded. Conductors and 10 pair groups 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	Conductor diameter (mm)	Insulation thickness (mm)	Sheath thickness (mm)	Cable diameter (mm)	Weight (kg/km)
2	0.6	0.26	1.5	6	35
5	0.6	0.26	1.7	9	75
10	0.6	0.28	1.8	11	124
20	0.6	0.28	1.8	14	216
30	0.6	0.28	1.9	16	290
50	0.6	0.28	2.0	20	459
70	0.6	0.28	2.0	22	615
100	0.6	0.28	2.1	26	850

### Cable properties

<b>Bending</b>		<b>Temperature window</b>	
Minimum bending diameter	10 x D	Operation	-40°C to +60°C
Repeated bending (EN 187000-507)	100 cycles	Installation	-15°C to +60°C
		Storage	-40°C to +70°C
<b>Crush</b> (EN 187000-504)	3.000 N	<b>Water penetration</b>	< 3 m/24 hours
<b>Impact</b> (EN 187000-505)	25 J	(EN 187000-605B)	

### Tensile strength

Number of pairs, 0.6 mm conductors	2	5	10	20	30	50	70	100
Maximum tensile load, installation (kN)	0.2	0.6	0.8	1.7	2.0	3.3	4.6	6.6
Maximum tensile load, operation (kN)	0.1	0.3	0.4	0.9	1.0	1.7	2.3	3.3



## Electrical data at 20°C

Conductor diameter (mm)	0.4	0.6	0.9
<b>Capacitance</b> , 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	2 pairs: - 5-10 pairs: 45±3 ≥20 pairs: 45±2
<b>Capacitance</b> , maximum value (nF/km)	2pairs: 52 5-10 pairs: 52 ≥20 pairs: 50	2pairs: 52 5-10 pairs: 52 ≥20 pairs: 50	2pairs: 52 5-10 pairs: 50 ≥20 pairs: 49
<b>Capacitance unbalance</b> maximum value (pF/km)	2pairs: 800 5 pairs: 300 ≥10 pairs: 50	2pairs: 800 5 pairs: 300 ≥10 pairs: 150	2pairs: 800 5 pairs: 300 ≥10 pairs: 100
<b>DC-Resistance</b> , loop, maximum average (ohm/km)	287.8	127.8	55.6
<b>DC-Resistance</b> , loop, maximum value (ohm/km)	299.8	133.2	58.0
<b>Attenuation</b> at 1 MHz maximum value (dB/km)	23.4	16.6	13.0
<b>EL-FEXT</b> , within base unit 1 MHz minimum average (dB)	56	56	56
<b>NEXT</b> within base unit 1 MHz minimum average (dB)	58	58	58
<b>Impedance</b> 1 MHz (ohm)	115±10	110±10	110±10

## Ordering information

Number of pairs	Art. No.	Cable code
2	600536	A2-0.6 FE-45D
5	600551	A5-0.6 ME-45P
10	600577	A10-0.6 ME-45P
20	600593	A20-0.6 ME-45P
30	600619	A30-0.6 ME-45P
50	600635	A50-0.6 ME-45P
70	600650	A70-0.6 ME-45P
100	600676	A100-0.6 ME-45P