

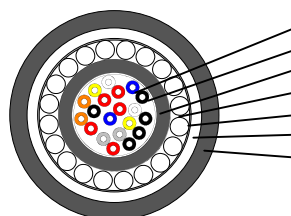


Directly buried cable METF/METE

Pair cable
Outdoor
Armoured
Jelly filled
High shielding factor

Application

Jelly filled pair cable for duct (METE) or direct burial installation (METF). The cable is completely jelly filled to avoid water penetration. All pairs are randomly cross stranded to give low cross-talk levels. The conductors and 10 pair groups are colour coded for easy identification. TELENOR code. The outer sheath is made of abrasion resistant polyethylene (METE) or semi-conducting polyethylene (METF), and marked to show cable type, conductor dimension and number of pairs.



Insulated copper conductor
Taping
Innersheath
Aluminium thread
Semi-conductive tape
Steel band
Semi-conductive (METF) or polyethylene (METE) outer sheath

Cable construction

Number of pairs	Conductor diameter mm	Insulation thickness mm	Innersheath thickness mm	Aluminium thread (Number X mm)	Steel band thickness mm	Outer sheath thickness mm	Cable diameter mm	Weight kg/km
10	0.9	0.46	1.2	21 x 1.6	0.5	1.5	22	830
20	0.9	0.46	1.3	28 x 1.6	0.8	1.7	29	1450
30	0.9	0.46	1.3	33 x 1.6	0.8	1.8	33	1800
10	1.2	0.65	1.2	28 x 1.6	0.8	1.7	29	1450
20	1.2	0.65	1.3	36 x 1.6	0.8	1.9	36	2050
30	1.2	0.65	1.4	41 x 1.6	0.8	2.0	40	2600

Rev.1.

Cable properties

Bending		Temperature window
Minimum bending diameter	15 x D	Operation
Repeated bending (EN 187000-507)	100 cycles	-30°C to +60°C
Crush (EN 187000-504)	5.000 N	Water penetration
Impact (EN 187000-505)	50 J	(EN 187000-605B)
		< 3 m/24 hours

Tensile strength

Number of pairs, 0.9 mm conductor	10	20	30
Maximum tensile load, installation (kN)	5.1	7.2	9.3
Maximum tensile load, operation (kN)	2.6	3.6	4.6
Number of pairs, 1.2 mm conductor	10	20	30
Maximum tensile load, installation (kN)	5.1	7.2	9.3
Maximum tensile load, operation (kN)	2.6	3.6	4.6

Electrical data at 20°C

Conductor diameter (mm)	0.9 og 1.2
Capacitance , maximum average (nF/km)	2 pairs: - 5-10 pairs: 45±3 ≥20 pairs: 45±2
Capacitance , maximum value (nF/km)	2pairs: 52 5-10 pairs: 50 ≥20 pairs: 49
Capacitance unbalance maximum value (pF/km)	2pairs: 800 5 pairs: 300 ≥10 pairs: 100
EL-FEXT , within base unit 1 MHz minimum average (dB)	56
NEXT within base unit 1 MHz minimum average (dB)	58
Impedance 1 MHz (ohm)	110±10

	0.9mmø	1.2mmø
DC-Resistance , loop, maximum average (ohm/km)	55.6	31.6
DC-Resistance , loop, maximum value (ohm/km)	58.0	33.0
Attenuation at 1 MHz maximum value (dB/km)	13.0	9.8

Shielding factor

Induced voltage [volt/km]	Innersheath - overall diameter (mm)			
	< 20mm	20 - 30mm	30 - 40mm	> 40mm
100	0.10	0.10	0.10	0.10
400	0.25	0.20	0.15	0.15
600	0.40	0.30	0.25	0.20

Ordering information, METF

0.9 mm conductor diameter			
Number of pairs	Art. No.	EI. No.	Cablecode
10	601810		L10-0.9 METF-45P
20	611048		L20-0.9 METF-45P
30	611055		L30-0.9 METF-45P

1.2 mm conductor diameter			
Number of pairs	Art. No.	EI. No.	Cablecode
10	611049		L10-1.2 METF-45P
20	611050		L20-1.2 METF-45P
30	611051		L30-1.2 METF-45P

Ordering information, METE

0.9 mm conductor diameter			
Number of pairs	Art. No.	EI. No.	Cablecode
10	601959	1085411	L10-0.9 METE-45P
20	601948	1085421	L20-0.9 METE-45P
30	601950	1085431	L30-0.9 METE-45P

1.2 mm conductor diameter			
Number of pairs	Art. No.	EI. No.	Cablecode
10	611061		L10-1.2 METE-45P
20	611059		L20-1.2 METE-45P
30	611060		L30-1.2 METE-45P