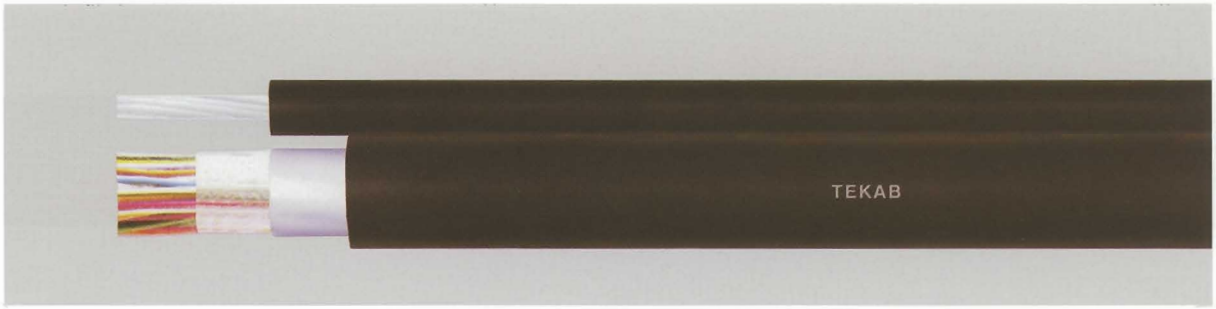

AERIAL TELEPHONE CABLES

Description : Polyethylene insulated, Polyethylene sheathed along with steel messenger
Construction
- Conductor : Solid bare annealed copper wire of nominal diameter 0.4, 0.5, 0.65 or 0.9 mm
- Insulation : Solid, cellular or foam-skin polyolefin material*
- Identification : Colour coded (see Technical Appendix)
- Twisting : Two conductors are twisted into pair
- Stranding : In sub units of 5 or 10 pairs in units of 50 or 100 pairs, and units of 50 or 100 pair of cables of more than 100 pairs
- Moisture barrier : Screen of longitudinally applied smooth copolymer coated aluminum tape
- Messenger : Strand of galvanized steel wires
- Sheath : Black weather resistant PE

Specification : to IEC 60708
Characteristics: Dielectric strength : 500V
: Min Insulation Resistance at 20°C : 1500MΩ.km
: Max Individual Mutual Capacitance : 64 nF/km
: Max average Mutual Capacitance for cables more than or equal to 20 pairs : 56 nF/km
: Max Capacitance unbalance at 800 Hz per 500m length of cable : 275 pF
: Max Conductor loop Resistance at 20°C

size, mm	0.4	0.5	0.65	0.9
Resistance, Ω / km:	300	191.8	114	60

Technical Data

Conductor Diameter : 0.4 mm

Number of Pairs	Msngr. Dim. Nr x Dia.	Approx O.D mm	Approx Weight kg/km	Code Number
10	7 X 0.9	16 X 8.0	130	MSTE 10 X 2 X 0.4
20	7 X 0.9	18 X 9.5	170	MSTE 20 X 2 X 0.4
30	7 X 1.2	20 X 10.9	235	MSTE 30 X 2 X 0.4
50	7 X 1.2	22 X 13	305	MSTE 50 X 2 X 0.4
70	7 X 1.2	24 X 15	370	MSTE 70 X 2 X 0.4
100	7 X 1.2	26 X 17.0	470	MSTE 100 X 2 X 0.4
150	7 X 1.6	30 X 19.9	685	MSTE 150 X 2 X 0.4
200	7 X 1.6	34 X 23.5	850	MSTE 200 X 2 X 0.4

Conductor Diameter : 0.5 mm

Number of Pairs	Msngr. Dim. Nr x Dia.	Approx O.D mm	Approx Weight kg/km	Code Number
10	7 X 0.9	17 X 9.0	150	MSTE 10 X 2 X 0.5
20	7 X 0.9	19 X 11	200	MSTE 20 X 2 X 0.5
30	7 X 1.2	22 X 13	280	MSTE 30 X 2 X 0.5
50	7 X 1.2	23 X 16	380	MSTE 50 X 2 X 0.5
70	7 X 1.2	25 X 17	470	MSTE 70 X 2 X 0.5
100	7 X 1.2	29 X 20	620	MSTE 100 X 2 X 0.5
150	7 X 1.6	32 X 22	890	MSTE 150 X 2 X 0.5
200	7 X 1.6	36 X 26	1150	MSTE 200 X 2 X 0.5

Conductor Diameter : 0.65 mm

Number of Pairs	Msngr. Dim. Nr x Dia.	Approx O.D mm	Approx Weight kg/km	Code Number
10	7 X 1.2	19 X 9.8	215	MSTE 10 X 2 X 0.65
20	7 X 1.2	21 X 12	300	MSTE 20 X 2 X 0.65
30	7 X 1.2	23 X 14	375	MSTE 30 X 2 X 0.65
50	7 X 1.2	26 X 17	530	MSTE 50 X 2 X 0.65
70	7 X 1.6	30 X 19	750	MSTE 70 X 2 X 0.65
100	7 X 1.6	34 X 23	1000	MSTE 100 X 2 X 0.65
150	7 X 1.6	38 X 28	1370	MSTE 150 X 2 X 0.65
200	7 X 1.6	42 X 31	1740	MSTE 200 X 2 X 0.65

Conductor Diameter : 0.9 mm

Number of Pairs	Msngr. Dim. Nr x Dia.	Approx O.D mm	Approx Weight kg/km	Code Number
10	7 X 1.2	21 X 12	290	MSTE 10 X 2 X 0.9
20	7 X 1.2	24 X 15	450	MSTE 20 X 2 X 0.9
30	7 X 1.2	27 X 18	590	MSTE 30 X 2 X 0.9
50	7 X 1.6	32 X 22	950	MSTE 50 X 2 X 0.9
70	7 X 1.6	37 X 26	1250	MSTE 70 X 2 X 0.9
100	7 X 1.6	41 X 31	1680	MSTE 100 X 2 X 0.9
150	7 X 2.0	48 X 38	2480	MSTE 150 X 2 X 0.9

*Above code is for foam skin insulation "M" • If Solid PE insulation: ESTE --- X 2 X (Conductor Size) • If Cellular PE insulation : CSTE --- X 2 X (Conductor Size)