

UNDERGROUND TYPE JELLY-FILLED TELEPHONE DISTRIBUTION CABLES

PDF-AP
TN-EDALE (TS 3930)

10 - 400 pair cables

- The interstices of the cable core are filled with a special compound, petroleum jelly. They are used in the local networks, as subscriber cables in the distribution networks. No water can penetrate into the core in case of cable damage. They can be directly buried or installed ducts.

Conductor diameter (Nominal) mm.Ø	Insulated diameter (Nominal) mm.Ø	Conductor resistance for 1 km. of cable at 20°C		Effective capacity(C ₁ -C ₂) for 1km of cable	
		Average ohm	Maximum ohm	Average nF	Maximum nF
0.40	0.75	139.4	150	50	56
0.50	0.90	89.4	96	50	56
0.60	1.10	62.1	67	45	51
0.90	1.70	27.6	30	45	51

Insulation resistance min. 10.000 MΩxkm. (20°C)

Construction

- **Conductors;** Solid copper wire.
- **Insulation;** Polyethylene. (BS 6234-03)
- **Design;** The basic sub-unit has ten pairs and contains five star-quads which are all stranded with same twist. The main units made from basic units either have 50 and 100 pairs. Cable core consisting of sub-units or main-units interstices filled with petroleum jelly and coated water-emitting foil and polyester.
- **Screen;** Where an aluminium foil some 0.2 mm. thick is covered on both sides with a layer of polyethylene.
- **Outer sheath;** Black polyethylene. (BS 6234-03C)



Capacitance unbalance (500 mt.)

Conductor diameter mm	Between pairs(K ₁) pF	Between neighbours(K ₉ -K ₁₂) pF	Between earth(E ₁ -E ₂) pF
0.40	125	125	500
0.50	125	125	500
0.60	60	60	325
0.90	60	60	325

Code no.	No. of conductor and diameter	Overall diameter	Approx weight	Standard length
	mm	mm.Ø	kg/km	mt
0.40mm.Ø				PDF-AP
40304010	10x2x0,40	10,0	102	1000
40304020	20x2x0,40	12,0	170	1000
40304030	30x2x0,40	13,5	225	1000
40304050	50x2x0,40	16,0	320	1000
40304100	100x2x0,40	20,5	560	500
40304150	150x2x0,40	25,0	800	500
40304200	200x2x0,40	28,0	1040	500
40304300	300x2x0,40	32,0	1500	500
40304400	400x2x0,40	36,0	1950	500
40304600	600x2x0,40	46,0	2750	500
40304900	900x2x0,40	54,0	4120	400
0.50mm.Ø				PDF-AP
40305010	10x2x0,50	11,0	130	1000
40305020	20x2x0,50	14,0	235	1000
40305030	30x2x0,50	16,0	310	1000
40305050	50x2x0,50	19,0	465	1000
40305100	100x2x0,50	25,0	840	500
40305150	150x2x0,50	30,0	1200	500
40305200	200x2x0,50	34,0	1630	500
40305300	300x2x0,50	41,0	2250	500
40305400	400x2x0,50	46,0	2970	500
40305600	600x2x0,50	54,0	4300	400
0.60mm.Ø				PDF-AP
40306010	10x2x0,60	14,0	225	1000
40306020	20x2x0,60	17,0	345	1000
40306030	30x2x0,60	19,5	480	1000
40306050	50x2x0,60	24,0	725	500
40306100	100x2x0,60	33,0	1350	500
40306150	150x2x0,60	39,0	1940	500
40306200	200x2x0,60	44,0	2525	500
40306300	300x2x0,60	53,0	3680	400
40306400	400x2x0,60	60,0	4800	400
0.90mm.Ø				PDF-AP
40309010	10x2x0,90	17,5	425	1000
40309020	20x2x0,90	22,5	630	500
40309030	30x2x0,90	28,0	900	500
40309050	50x2x0,90	34,0	1420	500
40309100	100x2x0,90	46,0	2650	500
40309150	150x2x0,90	53,0	3950	400
40309200	200x2x0,90	63,0	5150	400
40309300	300x2x0,90	74,0	7350	300