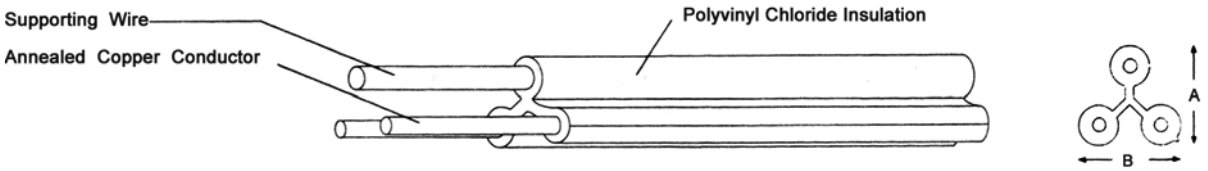
TELEPHONE WIRE AND CABLE

CONTENTS

TELEPHONE DROP WIRE

PVC INSULATED AND SELF - SUPPORTED



CABLE STRUCTURE

NUMBER OF CORE	:	2 cores.
CONDUCTOR	:	0.65, 0.90 mm solid annealed copper.
SUPPORTING WIRE	:	Galvanized steel wire 1.2 mm diameter.
INSULATION	:	Polyvinyl chloride (black)
REFERENCE	:	TOT Specification

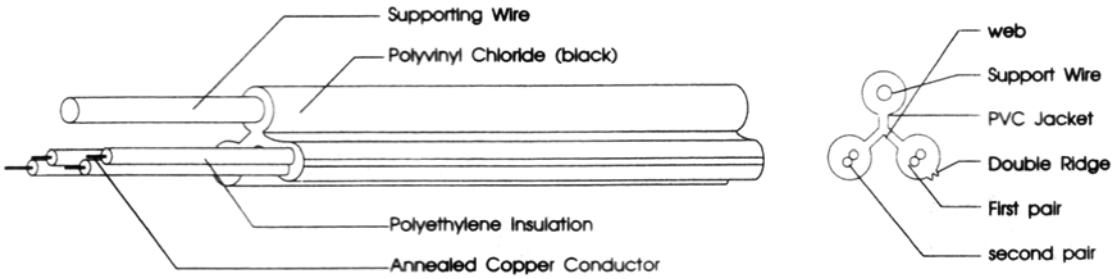
ELECTRICAL CHARACTERISTICS AT 20° C :

	Conductor size	0.65	0.9
Conductor resistance, maximum.	Ω/Km	57.1	28.5
Dielectric strength (1 minute in water).	KV rms.	1.5	1.5
Insulation resistance,	Meg Ω - Km	200	200

Number and Diameter of wire in Conductor (No/mm)	Nominal Conductor Diameter (mm.)	Nominal Diameter of Supporting Wire (mm.)	Nominal Insulation Thickness (mm.)	Insulation Diameter (mm.)		Approximate Overall Dimensions (mm.)		Approximate Weight (Kg./Km.)	Standard Length (m.)
				Conductor	Supporting Wire	A	B		
2x0.65	0.6426	1.2	1.0	2.64	3.2	6.7	6.7	42	200
2x0.9	0.9119	1.2	1.05	3.01	3.3	7.5	7.5	52	200

TELEPHONE DROP WIRE 2 PAIRS

PP, OR PE INSULATED PVC JACKET AND SELF - SUPPORTED



CABLE STRUCTURE

NUMBER OF PAIR	:	2 PAIRS
CONDUCTOR	:	0.65, 0.9 mm. SOLID ANNEALED COPPER
SUPPORTING WIRE	:	GALVANIZED STEEL WIRE 1.2 mm. DIAMETER
INSULATION	:	POLYETHYLENE, POLYPROPYLENE
PAIRS	:	TWO INSULATED CONDUCTORS TWISTED.
JACKET	:	POLYVINYL CHLORIDE (BLACK)

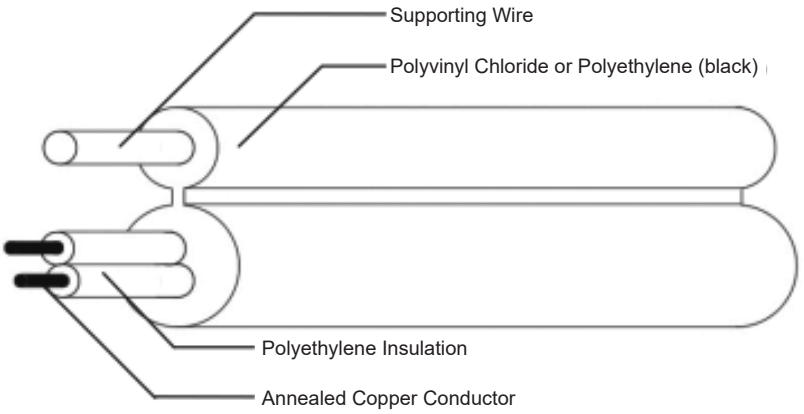
ELECTRICAL CHARACTERISTICS :

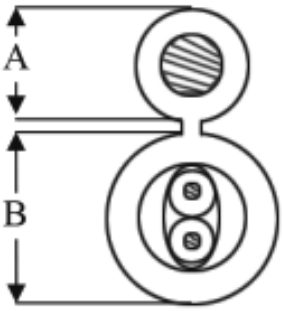
	Conductor size	0.65	0.9
Conductor resistance, maximum at 20° C	Ω/Km	57.1	28.5
Dielectric strength (3 seconds).	KV rms.	1.5	1.5
Insulation resistance,at 25 ° c ± 5 ° C	Meg Ω - Km	1,000	1,000
Mutual Capacitance at 1 Khz ± 100 Hz 25° C ± 3° C	μF/Km	0.080	0.080
Capacitance Unbalance at 1 Khz ± 100 Hz 25° C ± 3° C	pF/Km	250	250

Number and Diameter of wire in Conductor (Pr/mm)	Nominal Conductor Diameter (mm.)	Nominal Diameter of Supporting Wire (mm.)	Nominal Insulated Diameter (mm.)	Jacket Thickness (mm.)		Approximate Overall Dimensions (mm.)		Approximate Weight (Kg./Km.)	Standard Length (m.)
				Over Insulated Pair	Over Supporting Wire	A	B		
2 P x 0.65	0.6426	1.2	1.15	0.5	1.0	7.0	7.0	64	200
2 P x 0.9	0.9119	1.2	1.58	0.5	1.05	9.0	9.0	89	200

TELEPHONE DROP WIRE 1 PAIR

PP, OR PE INSULATED PVC JACKET AND SELF - SUPPORTED





CABLE STRUCTURE

NUMBER OF PAIR	:	1 PAIR
CONDUCTOR	:	0.50, 0.65, 0.9 mm. SOLID ANNEALED COPPER
SUPPORTING WIRE	:	GALVANIZED STEEL WIRE 1.2 mm. DIAMETER
INSULATION	:	POLYETHYLENE, POLYPROPYLENE
PAIRS	:	TWO INSULATED CONDUCTORS TWISTED.
JACKET	:	POLYVINYL CHLORIDE or POLYETHYLENE (BLACK)

ELECTRICAL CHARACTERISTICS :

	Conductor size	0.5	0.65	0.9
Conductor resistance, maximum at 20° C	Ω/Km	90.2	57.1	28.5
Dielectric strength (3 seconds).	KV rms.	3.0	1.5	1.5
Insulation resistance,at 25° c ± 5° C	Meg Ω - Km	16,000	1,000	1,000
Mutual Capacitance at 1 Khz ± 100 Hz 25° C ± 3° C	µF/Km	0.040	0.080	0.080

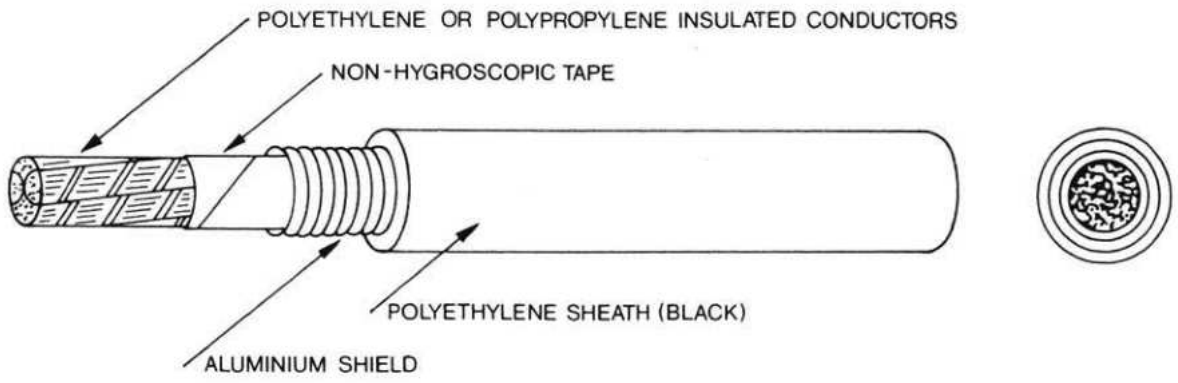
Number and Diameter of wire in Conductor (Pr/mm)	Nominal Conductor Diameter (mm.)	Nominal Diameter of Supporting Wire (mm.)	Nominal Insulated Diameter (mm.)	Jacket Thickness (mm.)		Approximate Overall Dimensions (mm.)		Approximate Weight (Kg./Km.)	Standard Length (m.)
				Over Insulated Pair	Over Supporting Wire	A	B		
1 P x 0.50	0.511	1.2	0.95	1	1.0	3.3	4.5	35	200
1 P x 0.65	0.6426	1.2	1.10	0.5	1.0	3.3	7.0	45	200
1 P x 0.90	0.9119	1.2	1.40	0.5	1.05	3.3	9.0	55	200

ELECTRICAL CHARACTERISTICS OF THE COMMUNICATION CABLES AT 20 ° C

Conductor Size AWG		26	24	22	19
Conductor diameter (nominal)	mm	0.4	0.5	0.65	0.9
Mutual capacitance at 1000 Hz.					
Average Cm for: 25 pairs and larger	nF/km.	52 ± 2	52 ± 2	52 ± 2	52 ± 2
less than 25 pairs	nF/km.	52 ± 4	52 ± 4	52 ± 4	52 ± 4
Mutual Conductance of any pair at 1000 Hz.					
shall not exceed	micro mho/km.	2	2	2	2
Capacitance unbalance pair to pair at 1000 Hz.					
For up to 6 pairs cable, maximum individual	pF/km.	181	181	181	181
For more than 6 pairs cable, maximum rms	pF/km.	45	45	45	45
Insulation resistance, Minimum	meg Ω-km.	16,000	16,000	16,000	16,000
Conductor resistance at 20 ° C, Maximum	Ω/km.	144.4	90.2	57.1	28.5
High voltage test					
Conductor to conductor (3 seconds)	kV-dc	2.4	3.0	3.6	4.5
Conductor to shield (3 seconds)	kV-dc	10	10	10	10
Attenuation at 1000 Hz, nominal	dB/km.	1.80	1.43	1.11	0.77

Minimum bending diameter shall not less than 18 times the cable overall diameter

ALPETH SHEATHED CABLE



APPLICATION : For exchange area telephone distribution lines, Principally for aerial installation by attachment To a support stand. It may be used, however, in Underground ducts where there is no damage Due to mechanical abuse.

CABLE STRUCTURE

CONDUCTOR	:	0.4, 0.5, 0.65 or 0.9 mm annealed copper, solid.
INSULATION	:	Polyethylene or Polypropylene.
PAIRS	:	Two insulated conductors twisted.
LAY UP	:	Unit construction for cables more than 25 pairs. Concentric for cables up to 25 pairs.
CORE-COVERING	:	Non-hygroscopic tape with a high dielectric strength.
SHIELD	:	Plastic coated Aluminium tape, thickness 0.2 mm laid on with overlap. The aluminium tape is corrugated for every size of cables.
SHEATH	:	Polyethylene (Black)

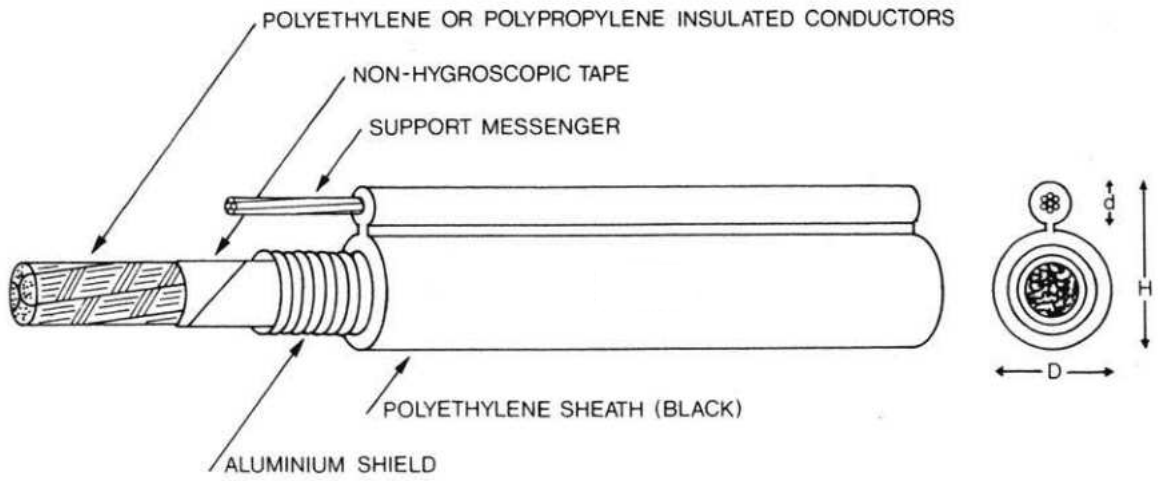
Conductor (mm)	Number of pairs	Nominal Insulation thickness (mm)	Nominal sheath thickness (mm)	Approximate overall diameter (mm)	Approximate cable weight (Kg/Km)	Standard length (m)
0.4	3	0.15	1.5	7.5	55	1,000/R
	5	0.15	1.5	8.1	60	1,000/R
	6	0.15	1.5	8.4	65	1,000/R
	10	0.15	1.5	9.3	80	1,000/R
	12	0.15	1.5	9.6	90	1,000/R
	25	0.15	1.5	11.6	140	1,000/R
	50	0.15	1.5	14.3	220	1,000/R
	75	0.15	1.5	16.3	300	1,000/R
	100	0.15	1.5	18	380	1,000/R
	150	0.15	1.5	21.7	540	500/R
	200	0.15	1.5	24.2	690	500/R
	300	0.15	1.8	28.8	870	500/R
	400	0.15	1.8	32.2	1,300	500/R
	600	0.15	2.0	38.4	1,900	500/R
	900	0.15	2.3	46.5	2,800	250/R
0.5	3	0.20	1.5	8.0	60	1,000/R
	5	0.20	1.5	8.8	70	1,000/R
	6	0.20	1.5	9.2	75	1,000/R
	10	0.20	1.5	10.3	100	1,000/R
	12	0.20	1.5	10.8	120	1,000/R
	25	0.20	1.5	13.3	190	1,000/R
	50	0.20	1.5	16.7	320	1,000/R
	75	0.20	1.5	19.3	440	1,000/R
	100	0.20	1.5	22.2	570	1,000/R
	150	0.20	1.5	25.8	810	500/R
	200	0.20	1.8	29.5	1,070	500/R
	300	0.20	1.8	34.7	1,530	500/R
	400	0.20	2.0	39.5	2,010	500/R
	600	0.20	2.3	48.0	2,980	350/R
	900	0.20	2.5	57.3	4,415	250/R

R = Packing in reel

Conductor (mm)	Number of pairs	Nominal Insulation thickness (mm)	Nominal sheath thickness (mm)	Approximate overall diameter (mm)	Approximate cable weight (Kg/Km)	Standard length (m)
0.65	3	0.25	1.5	8.8	70	1,000/R
	5	0.25	1.5	9.8	90	1,000/R
	6	0.25	1.5	10.2	100	1,000/R
	10	0.25	1.5	11.7	130	1,000/R
	12	0.25	1.5	12.3	160	1,000/R
	25	0.25	1.5	15.4	260	1,000/R
	50	0.25	1.5	19.7	460	1,000/R
	75	0.25	1.5	23.7	660	1,000/R
	100	0.25	1.5	26.4	850	500/R
	150	0.25	1.8	31.6	1,240	500/R
	200	0.25	2.0	36.0	1,630	500/R
	300	0.25	2.0	43.0	2,380	350/R
	400	0.25	2.3	49.0	3,120	250/R
	600	0.25	2.5	58.5	4,610	200/R
0.9	3	0.35	1.5	10.2	100	1,000/R
	5	0.35	1.5	11.6	140	1,000/R
	6	0.35	1.5	12.2	160	1,000/R
	10	0.35	1.5	14.3	220	1,000/R
	12	0.35	1.5	15.2	260	1,000/R
	25	0.35	1.5	19.6	460	1,000/R
	50	0.35	1.5	26.4	850	500/R
	75	0.35	1.8	31.5	1,240	500/R
	100	0.35	2.0	35.8	1,620	500/R
	150	0.35	2.0	42.8	2,380	500/R
	200	0.35	2.3	48.9	3,130	500/R
	300	0.35	2.5	58.5	4,585	250/R
	400	0.35	2.8	66.8	6,055	250/R

R = Packing in reel

FIGURE 8 : ALPETH SHEATHED CABLE (FIG. 8 AP)



APPLICATION : For exchange area telephone distribution lines, It is designed, especially for aerial installation by using the support messenger.

CABLE STRUCTURE

CONDUCTOR	:	0.4, 0.5, 0.65 or 0.9 mm annealed copper, solid.
INSULATION	:	Polyethylene or Polypropylene.
PAIRS	:	Two insulated conductors twisted.
LAY UP	:	Unit construction for cables more than 25 pairs. Concentric for cables up to 25 pairs.
CORE-COVERING	:	Non-hygroscopic tape with a high dielectric strength.
SHIELD	:	Plastic coated Aluminium tape, thickness 0.2 mm laid on with overlap. The aluminium tape is corrugated for every size of cables.
SUPPORT	:	7/2.03 mm extra high strength grade messenger galvanized steel wire, breaking load 29581 N (3,016 Kg).
SHEATH	:	Polyethylene (Black)

Conductor (mm)	Number of pairs	Support messenger wire diameter (mm)	Nominal sheath thickness (mm)		Approximate overall dimension (mm)			Approximate cable weight (Kg/Km)	Standard length (m)
			Support messenger	Cable core	d	D	H		
0.4	3	2.03	1.5	1.5	9.1	7.4	19.5	245	1,000/R
	5	2.03	1.5	1.5	9.1	8.1	20.2	250	1,000/R
	6	2.03	1.5	1.5	9.1	8.3	20.4	260	1,000/R
	10	2.03	1.5	1.5	9.1	9.3	21.4	270	1,000/R
	12	2.03	1.5	1.5	9.1	9.6	21.7	280	1,000/R
	25	2.03	1.5	1.5	9.1	11.6	23.7	330	1,000/R
	50	2.03	1.5	1.5	9.1	14.3	26.4	410	1,000/R
	75	2.03	1.5	1.5	9.1	16.3	28.4	490	1,000/R
	100	2.03	1.5	1.5	9.1	18	30.1	570	1,000/R
	150	2.03	1.5	1.5	9.1	21.7	33.8	730	500/R
	200	2.03	1.5	1.5	9.1	24.1	36.3	880	500/R
	300	2.03	1.8	1.8	9.7	28.8	41.5	1,060	500/R
	400	2.03	1.8	1.8	9.7	32.2	44.9	1,490	500/R
0.5	3	2.03	1.5	1.5	9.1	8.0	20.0	250	1,000/R
	5	2.03	1.5	1.5	9.1	8.8	21.0	260	1,000/R
	6	2.03	1.5	1.5	9.1	9.2	21.3	265	1,000/R
	10	2.03	1.5	1.5	9.1	10.3	22.4	290	1,000/R
	12	2.03	1.5	1.5	9.1	10.8	23.0	310	1,000/R
	25	2.03	1.5	1.5	9.1	13.3	25.4	380	1,000/R
	50	2.03	1.5	1.5	9.1	16.7	28.8	510	1,000/R
	75	2.03	1.5	1.5	9.1	19.2	31.8	630	1,000/R
	100	2.03	1.5	1.5	9.1	22.2	34.3	760	1,000/R
	150	2.03	1.5	1.5	9.1	25.8	38.0	1,000	500/R
	200	2.03	1.8	1.8	9.7	27.6	42.2	1,260	500/R
	300	2.03	1.8	1.8	9.7	34.7	47.4	1,720	350/R

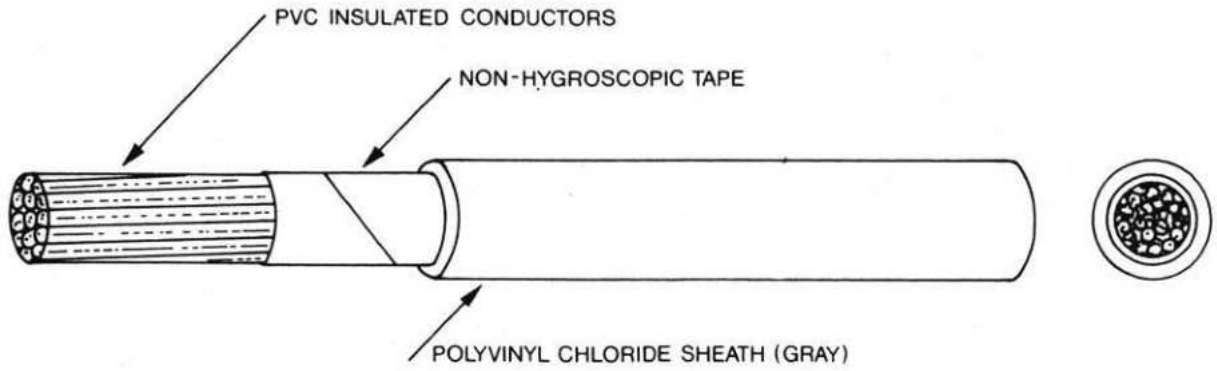
R = Packing in reel

Conductor (mm)	Number of pairs	Support messenger wire diameter (mm)	Nominal sheath thickness (mm)		Approximate overall dimension (mm)			Approximate cable weight (Kg/Km)	Standard length (m)
			Support messenger	Cable core	d	D	H		
0.65	3	2.03	1.5	1.5	9.1	8.7	20.8	260	1,000/R
	5	2.03	1.5	1.5	9.1	9.8	21.9	280	1,000/R
	6	2.03	1.5	1.5	9.1	10.2	22.3	290	1,000/R
	10	2.03	1.5	1.5	9.1	11.7	23.8	320	1,000/R
	12	2.03	1.5	1.5	9.1	12.3	24.4	350	1,000/R
	25	2.03	1.5	1.5	9.1	15.4	27.5	450	1,000/R
	50	2.03	1.5	1.5	9.1	19.6	31.7	650	1,000/R
	75	2.03	1.5	1.5	9.1	23.7	35.8	850	1,000/R
	100	2.03	1.5	1.5	9.1	26.4	38.5	1,040	500/R
	150	2.03	1.8	1.8	9.7	31.6	44.3	1,430	500/R
	200	2.03	2.0	2.0	10.1	35.9	49.0	1,820	500/R
	300	2.03	2.0	2.0	10.1	43.0	56.0	2,570	350/R
	400	2.03	2.3	2.3	10.7	49.0	62.7	3,310	300/R
0.9	3	2.03	1.5	1.5	9.1	10.2	22.3	290	1,000/R
	5	2.03	1.5	1.5	9.1	11.6	23.7	330	1,000/R
	6	2.03	1.5	1.5	9.1	12.2	24.3	350	1,000/R
	10	2.03	1.5	1.5	9.1	14.3	26.4	410	1,000/R
	12	2.03	1.5	1.5	9.1	15.2	27.3	450	1,000/R
	25	2.03	1.5	1.5	9.1	19.6	31.7	650	1,000/R
	50	2.03	1.5	1.5	9.1	26.4	38.5	1,040	500/R
	75	2.03	1.8	1.8	9.7	31.5	44.2	1,430	500/R
	100	2.03	2.0	2.0	10.1	35.8	48.9	1,810	250/R
	150	2.03	2.0	2.0	10.1	42.8	56.0	2,570	250/R
	200	2.03	2.3	2.3	10.7	49.0	62.6	3,320	250/R
	300	2.03	2.5	2.5	11.1	58.5	72.6	7,900	250/R

R = Packing in reel

TELEPHONE AND COMMUNICATION CABLES

PVC SHEATHED AND PVC INSULATED TERMINATING CABLE



APPLICATION : For connecting subscriber equipments inside the building.

SPECIFICATION : TOT's Spec. OC-121-02

CABLE STRUCTURE

CONDUCTOR : 0.5 or 0.65 mm a solid wire of tinned annealed copper.

INSULATION : Polyvinyl chloride.

PAIRS : Two insulated conductors twisted.

LAY UP : Cables are formed in unit construction.

CORE-COVERING : Non-hygroscopic tape

SHEATH : Polyvinyl Chloride (GRAY).

ELECTRICAL CHARACTERISTICS AT 20 ° C :

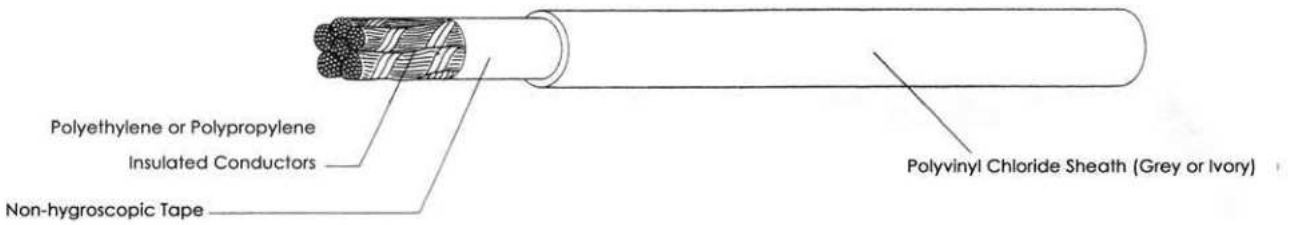
	Conductor size (mm)	0.5	0.65
Conductor resistance, maximum	Ω/Km	95.1	60.7
Mutual Capacitance at 1,000 Hz,maximum average.	μF/Km	0.098	0.098
Dielectric strength between conductor (2 minutes).	V	500	500
Insulation resistance,	Meg Ω - Km	500	500

Conductor (mm)	Number of pairs	Nominal Insulation thickness (mm)	Nominal sheath thickness (mm)	Approximate overall diameter (mm)	Approximate cable weight (Kg/Km)	Standard length (m)
0.5	100	0.30	1.6	24.0	600	500/R
	200	0.30	1.6	32.5	1,330	500/R
	300	0.30	1.6	39.0	1,940	500/R
	400	0.30	1.6	44.5	2,530	500/R
0.65	100	0.45	1.6	34.0	1,230	500/R
	200	0.45	1.6	46.5	2,320	500/R
	300	0.45	1.6	56.5	3,390	300/R
	400	0.45	1.6	64.5	4,230	300/R

R = Packing in reel

TELEPHONE AND COMMUNICATION CABLES

PP OR PE INSULATED PVC SHEATHED TERMINATING CABLE



CABLE STRUCTURE

CONDUCTOR	:	0.5 or 0.65 mm. solid annealed copper
INSULATION	:	Polyethylene or Polypropylene
PAIRS	:	Two insulated conductors twisted.
LAY UP	:	Cable are formed in unit construction.
CORE-COVERING	:	Non-hygroscopic tape
SHEATH	:	Polyvinyl chloride (ivory)

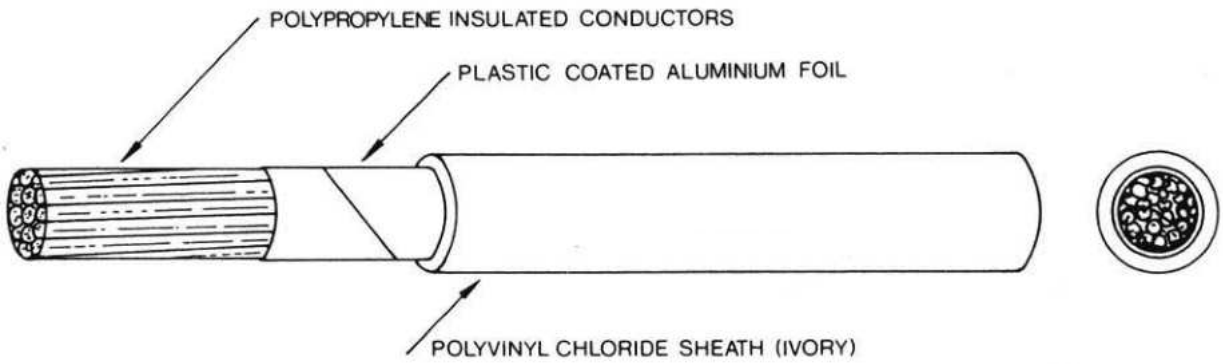
ELECTRICAL CHARACTERISTICS AT 20 ° C :

	Conductor size (mm)	0.5	0.65
Conductor resistance, maximum	Ω/Km	92.0	58.0
Mutual Capacitance at 1,000 Hz,maximum average.(Max.)	μF/Km	0.070	0.070
Dielectric strength between conductor (2 seconds).	KVdc	1.5	2.0
Insulation resistance, minimum	Meg Ω - Km	16,000	16,000

Conductor Diameter (mm.)	Number of Pairs	Nominal Insulation Thickness (mm.)	Nominal Sheath Thickness (mm.)	Approximate Overall Diameter (mm.)	Approximate Cable Weight (Kg./Km.)	Standard Length (m.)
0.5	4	0.2	1.5	6.0	53	100-500
	5	0.2	1.5	6.2	66	100-500
	6	0.2	1.5	8.2	80	100-500
	10	0.2	1.5	9.7	111	100-500
	12	0.2	1.5	10.3	125	100-500
	15	0.2	1.5	9.00	166	100-500
	25	0.2	1.5	13.4	213	100-500
	50	0.2	1.5	17.5	369	100-500
	100	0.2	1.5	23.4	663	100-500
	150	0.2	1.5	27.9	947	100-500
	200	0.2	1.5	31.7	1,226	100-500
	300	0.2	1.5	38.1	1,775	100-500
0.65	4	0.2	1.5	6.3	76	100-500
	5	0.2	1.5	6.5	95	100-500
	6	0.2	1.5	10.3	114	100-500
	10	0.2	1.5	10.6	146	100-500
	12	0.2	1.5	11.3	167	100-500
	25	0.2	1.5	14.8	295	100-500
	50	0.2	1.5	19.6	527	100-500
	100	0.2	1.5	26.3	972	100-500
	150	0.2	1.5	31.5	1,404	100-500
	200	0.2	1.5	35.8	1,831	100-500
	300	0.2	1.5	43.1	2,674	100-500

TELEPHONE AND COMMUNICATION CABLES

POLYPROPYLENE INSULATED AND PVC SHEATHED COMMUNICATION CABLE WITH ALUMINIUM FOIL



APPLICATION : For connecting subscriber equipments inside the building where there is interfering noise cause by other electrical equipments.

CABLE STRUCTURE

CONDUCTOR : 0.5, 0.65 and 0.9 mm solid annealed copper.

INSULATION : Polypropylene.

PAIRS : Two insulated conductors twisted.

LAY UP : Twisted pairs concentrically stranded.

SHIELD : Plastic coated aluminium foil thickness 0.01 mm (min.) wrapped on with overlap.

SHEATH : Polyvinyl Chloride (Ivory).

ELECTRICAL CHARACTERISTICS AT 20 ° C :

	Conductor size (mm)	0.5	0.65	0.9
Conductor resistance, maximum	Ω/Km	92.0	58.0	29.0
Mutual Capacitance at 1,000 Hz,average.	μF/Km	0.056	0.056	0.056
Dielectric strength between conductor (2 seconds).	KV	3.0	3.6	4.5
Insulation resistance, minimum	Meg Ω - Km	16,000	16,000	16,000

Conductor diameter (mm)	Number of pairs	Nominal Insulation thickness (mm)	Nominal sheath thickness (mm)	Approximate overall diameter (mm)	Approximate cable weight (Kg/Km)	Standard length (m)
0.5	10	0.21	1.2	8.6	94	500/R
	11	0.21	1.2	8.8	100	500/R
	12	0.21	1.2	9.1	106	500/R
	15	0.21	1.2	9.8	125	500/R
	16	0.21	1.2	10.0	131	500/R
	20	0.21	1.2	10.9	155	500/R
	21	0.21	1.2	11.0	161	500/R
	25	0.21	1.2	11.8	185	500/R
	30	0.21	1.4	13.0	225	500/R
	40	0.21	1.4	14.6	282	500/R
	50	0.21	1.4	16.0	343	500/R
0.65	6	0.35	1.2	9.1	98	500/R
	8	0.35	1.2	9.9	118	500/R
	10	0.35	1.2	10.3	136	500/R
	11	0.35	1.2	10.6	146	500/R
	12	0.35	1.2	10.9	156	500/R
	15	0.35	1.2	11.9	185	500/R
	16	0.35	1.2	12.2	194	500/R
	20	0.35	1.4	13.7	244	500/R
	21	0.35	1.4	13.9	254	500/R
	25	0.35	1.4	14.9	292	500/R
	30	0.35	1.4	16.1	344	500/R
	40	0.35	1.6	18.5	451	500/R
	50	0.35	1.6	20.2	543	500/R

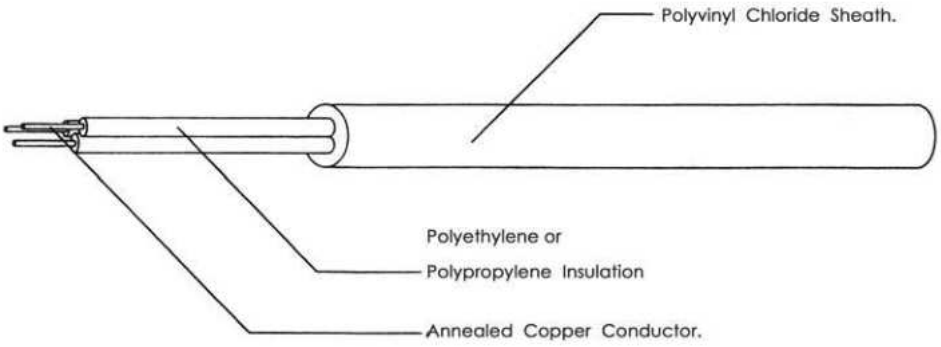
R = Packing in reel

Conductor diameter (mm)	Number of pairs	Nominal Insulation thickness (mm)	Nominal sheath thickness (mm)	Approximate overall diameter (mm)	Approximate cable weight (Kg/Km)	Standard length (m)
0.9	3	0.35	1.2	9.3	96	500/R
	4	0.35	1.2	10.2	117	500/R
	5	0.35	1.2	11.1	137	500/R
	6	0.35	1.2	11.5	154	500/R
	8	0.35	1.2	12.4	188	500/R
	10	0.35	1.4	13.6	235	500/R
	11	0.35	1.4	13.9	251	500/R
	12	0.35	1.4	14.4	269	500/R
	15	0.35	1.4	15.7	322	500/R
	16	0.35	1.4	16.2	344	500/R
	20	0.35	1.4	17.7	414	500/R
	25	0.35	1.6	19.8	516	500/R
	30	0.35	1.6	21.3	601	500/R
	40	0.35	1.8	24.4	789	500/R
	50	0.35	1.8	26.8	956	500/R

R = Packing in reel

STATION WIRE

PP OR PE INSULATED AND PVC SHEATH



CABLE STRUCTURE

NUMBER OF CORE	:	2-6 cores
CONDUCTOR	:	0.5 or 0.65 mm solid annealed copper.
INSULATION	:	Polypropylene or Polyethylene.
IDENTIFICATION	:	2 core : Red and green
		3 core : Red, green and yellow.
		4 core : Red, green, yellow and black.
		5 core : Red, green, yellow, black and white.
		6 core : Red, green, yellow, black, white and brown.
SHEATH	:	Polyvinyl Chloride (Ivory).
REFERENCE	:	TOT Specification.

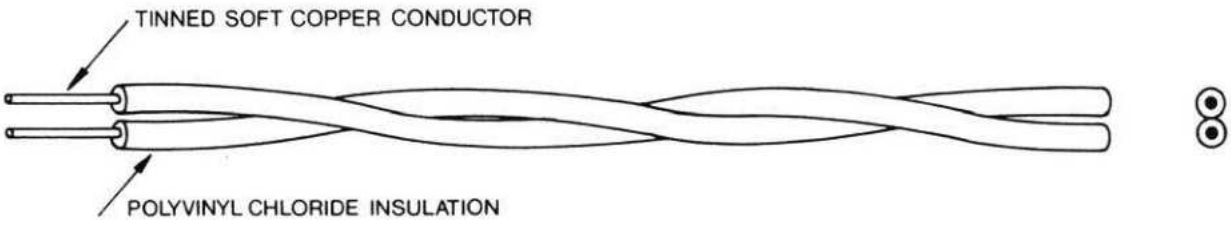
ELECTRICAL CHARACTERISTICS AT 20 ° C :

	Conductor size (mm)	0.5	0.65
Conductor resistance, maximum	Ω/Km	92.0	58.0
Dielectric strength between conductors (3 seconds)	KV (dc)	3.0	3.6
Insulation resistance,	Meg Ω - Km	16,000	16,000

Size (No./mm)	Nominal conductor diameter (mm)	Nominal Insulation thickness (mm)	Nominal Sheath thickness (mm)	Approximate overall diameter (mm)	Approximate weight (Kg/Km)	Standard length (m)
2 x 0.5	0.51	0.2	0.38	2.6	12	100 or 150/c
3 x 0.5	0.51	0.2	0.38	2.7	19	100 or 150/c
4 x 0.5	0.51	0.2	0.38	3.0	27	100 or 150/c
5 x 0.5	0.51	0.2	0.38	3.2	36	100 or 150/c
6 x 0.5	0.51	0.2	0.38	3.5	46	100 or 150/c
2 x 0.65	0.64	0.22	0.38	3.1	17	100 or 150/c
3 x 0.65	0.64	0.22	0.38	3.4	27	100 or 150/c
4 x 0.65	0.64	0.22	0.38	3.7	38	100 or 150/c
5 x 0.65	0.64	0.22	0.38	4.0	50	100 or 150/c
6 x 0.65	0.64	0.22	0.38	4.0	60	100 or 150/c

JUMPER WIRE

PVC INSULATED



CABLE STRUCTURE

NUMBER OFCORE	:	1-4 cores
CONDUCTOR	:	0.5 or 0.65 mm tinned soft copper solid.
INSULATION	:	Polyvinyl chloride.
LAY-UP	:	The require number of insulated conductors twisted together.
IDENTIFICATION	:	size 2 x 0.5 mm colour : black and yellow size 3 x 0.5 mm colour : red, white and green size 2 x 0.65 mm colour : red and white other colour depend on customer.
REFERENCE	:	TOT Specification.

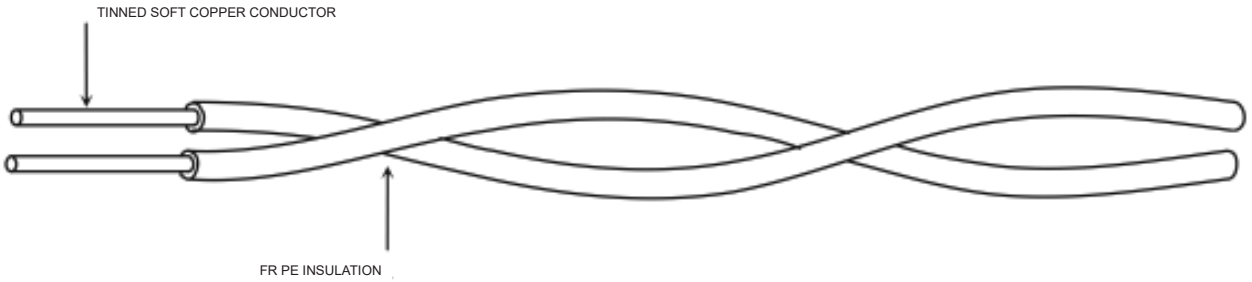
ELECTRICAL CHARACTERISTICS AT 20 ° C :

	Conductor size (mm)	0.5	0.65
Conductor resistance, maximum	Ω/Km	95.1	60.7
Dielectric strength between conductors (2 seconds)	KV / rms	1.0	1.0
Insulation resistance,	Meg Ω - Km	200	200

Number and diameter of wire in conductor (No./mm)	Nominal conductor diameter (mm)	Nominal Insulation thickness (mm)	Approximate overall diameter (mm)	Approximate cable weight (Kg/Km)	Standard length (m)
1 x 0.5	0.52	0.30	1.2	3.0	100, or 200/c
2 x 0.5	0.52	0.30	2.4	6.0	100, or 200/c
3 x 0.5	0.52	0.30	2.6	9.0	100, or 200/c
4 x 0.5	0.52	0.30	2.9	12.0	100, or 200/c
1 x 0.65	0.64	0.30	1.3	4.5	100, or 200/c
2 x 0.65	0.64	0.30	2.7	9.0	100, or 200/c
3 x 0.65	0.64	0.30	2.9	13.5	100, or 200/c
4 x 0.65	0.64	0.30	3.2	18.0	100, or 200/c

JUMPER WIRE

FLAME RETARDANT POLYETHYLENE INSULATED



CABLE STRUCTURE

NUMBER OF CORE	:	1-4 cores
CONDUCTOR	:	0.5 or 0.65 mm tinned soft copper solid.
INSULATION	:	Flame Retardant Polyethylene.
LAY-UP	:	The require number of insulated conductors twisted together.
IDENTIFICATION	:	2 Cores 0.50 mm colour : white and blue 2 Cores 0.65 mm colour : white and red
REFERENCE	:	TOT Specification.

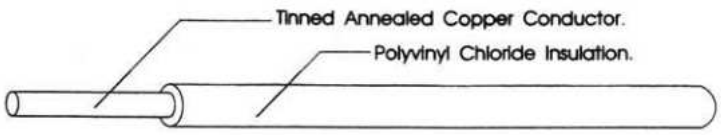
ELECTRICAL CHARACTERISTICS :

	Conductor size (mm)	0.5	0.65
Conductor resistance, maximum at 20° C	Ω/Km	95.1	57.1
Dielectric strength (3 seconds)	KV / rms	2.0	2.0
Insulation resistance, at 20 ± 4° C	Meg Ω - Km	10.000	10.000

Number and diameter of wire in conductor (No./mm)	Nominal conductor diameter (mm)	Nominal Insulation thickness (mm)	Approximate overall diameter (mm)	Approximate cable weight (Kg/Km)	Standard length (m)
2 x 0.5	0.511	0.20	0.92	3.0	100, or 200/c
2 x 0.65	0.642	0.20	1.10	6.0	100, or 200/c

GROUND WIRE

PVC INSULATED, SINGLE CORE



CABLE STRUCTURE

CONDUCTOR : Solid tinned annealed copper
size 1.6, 2.0, 2.6, 4.1 mm

INSULATION : Polyvinylchloride (black)

REFERENCE : TOT Specification.

Size (AWG)	Size (mm)	Nominal conductor diameter (mm)	Nominal Insulation thickness (mm)	Approximate overall diameter (mm)	Approximate weight (Kg/Km)	Standard length (m)
14	1.6	1.60	0.8	3.20	27	150
12	2.0	2.00	0.8	3.60	38	150
10	2.6	2.60	0.8	4.20	61	150
6	4.1	4.10	1.6	7.30	160	150