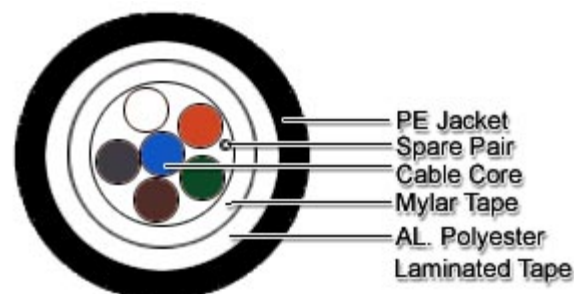


## TELEPHONE CABLE (HYA SERIES)

The cable is applied to telecom net both in urban and rural area for transmission of audio frequency information, 28+D and below digital information, 2408kb/s digital information or 150KHz and below analog information.

**Cross Section of Cable**



### Specification

Inner Conductor Diameter	0.4		0.5		0.6		0.8	
	Max. Dia.	Weight	Max. Dia.	Weight	Max. Dia.	Weight	Max. Dia.	Weight
10	11.5	85	12.5	107	14.0	135	17.5	196
20	13.5	126	15.0	167	17.0	234	21.0	324
30	15.0	167	17.0	230	19.5	304	24.5	447
50	17.5	238	20.0	331	23.0	464	29.0	714
100	22.5	419	25.5	596	29.0	854	38.5	1330
200	28.0	788	32.5	1133	38.5	1598	52.5	2520
300	32.5	1105	38	1695	46.0	2287	62.0	3924
400	36.5	1447	43.5	2116	52.5	3050	70.0	5190
600	42.5	2065	51.5	3125	62.5	4400		
800	49.0	2729	58.5	4000	70.5	5900		
900	51.5	3077	61.5	4580				
1000	53.0	3377	64.5	5065				
1200	57.5	3995	69.5	6003				

### Electrical Properties

#### 1.DC Resistance of Individual Conductor(20℃)

Nominal Conductor Diameter(mm)	0.4	0.5	0.6	0.8
DC Resistance (Ω/km) max	148.0	95.0	65.8	36.6

#### 2.DC Resistance Unbalance

Nominal Conductor Diameter(mm)	0.4	0.5	0.6	0.8
DC Resistance Average Value≤	1.5	1.5	1.5	1.5
Unbalance% Max Value≤	5.0	5.0	5.0	4.0

#### 3.Insulation Resistance Between Conductor and Earth or Shield

(20℃ .DC100-500V)≥1000MΩ.km

#### 4.Electric Strength or Insulation(DC)

Between Conductors: 1000V 1min Undisruptive

Between Conductor and Shield: 3000V 1min Undisruptive

#### 5.Capacitance(nF/km)

Cables Over 10pairs

Average Value: 52+/-2.0

Max Value: 57.0

#### 6.Capacitance Unbalance, 0.8KHz or 1KHz pF/km

Pair to Pair: max 250(200) 250(200)

Pair to Earth: max 2630 2630

Average Value: >570(490)

#### 7.Remote-End Crosstalk Defence(150KHz)

Basic Unit or 30pairs Average Power Value  $\geq 69\text{dB/km}$   
Subunit: 12pairs and 13pairs and 10pairs and 20pairs  
Average Power Value  $\geq 68\text{dB/km}$

8.Near-End Crosstalk Attenuation:

10pairs Composed(m-s)  $\geq 53\text{dB}$   
12pairs and 13pairs Composed(m-s)  $\geq 54\text{dB}$   
20pairs and 30pairs or Basic Unit Composed(m-s)  $\geq 58\text{dB}$   
Adjacent Basic Subunit Composed(m-s)  $\geq 63\text{dB}$   
Adjacent Basic Unit Composed(m-s)  $\geq 64\text{dB}$   
Two Relative Basic Unit or Subunit Composed in Unit (m-s)  $\geq 70\text{dB}$   
Basic Unit or Subunit Composed in Different Unit(m-s)  $\geq 79\text{dB}$

9.Natural Attenuation: (20℃)

Nominal Conductor Diameter(mm)	0.4	0.5	0.6	0.8
Average Value $\leq 150\text{KHz}$	12.1	9.0	7.2	5.7
Value $\leq 1024\text{KHz}$	27.3	22.5	18.5	13.7