

AERIAL CABLES WITHOUT SUSPENSION STRAND, A-2Y(St)2Y

Application :

For connecting in local networks for telephone purposes and signal transmission.

Construction :

Conductor: solid plain annealed copper
 Insulation: Solid PE, type III class A, category 4 or 5 grade E8 as per ASTM D 1248
 Core wrap: Heat barrier polyester tape between core and screen
 Drain wire : Solid tinned copper
 Screen : Aluminum-polyester (AL foil) tape in continuous contact with drain wire
 Jacket : Black PE, type III class C, category 4 or 5 grade J4 as per ASTM D 1248, black



Standard :

TCI

Electrical data:

Conductor diameter (mm)	Max. conductor resistance at 20°C (Ω/km)	Min. insulation resistance at 20°C (MΩ.km)	Max. mutual capacitance at 800~1000Hz (nF/km)	Max. capacitance unbalance at 800~1000Hz (pF/km)	Attenuation (dB/km)		Operating voltage, RMS (V)	Test voltage, DC (kV)
					1024 KHz	1500 KHz		
0.4	147	20000	52 ± 2 (average of all pairs) 57 (maximum any pair)	181 (up to 10 pairs individual pair to pair) 45 (20 to 50 pairs RMS for pair to pair)	26	31.5	150	2.4 (for 3 sec.) core to core 5 (for 3 sec.) core to shield
0.6	65				19.5	24		3.5 (for 3 sec.) core to core 5 (for 3 sec.) core to shield

Dimensional data :

No. of pairs / diameter of conductor (- / mm)	Sheath thickness (mm)	Approx. overall diameter (mm)	Approx. net weight (kg/km)	No. of pairs / diameter of conductor (- / mm)	Sheath thickness (mm)	Approx. overall diameter (mm)	Approx. net weight (kg/km)
2 x 2 x 0.4	1	5.2	25	2 x 2 x 0.6	1	6	35
4 x 2 x 0.4	1	5.7	30	4 x 2 x 0.6	1	7.2	50
6 x 2 x 0.4	1	6.5	40	6 x 2 x 0.6	1	8	70
8 x 2 x 0.4	1	6.7	50	8 x 2 x 0.6	1	8.5	80
10 x 2 x 0.4	1	7.7	60	10 x 2 x 0.6	1	9.5	100
20 x 2 x 0.4	1.4	10.3	105	20 x 2 x 0.6	1.4	13	185
30 x 2 x 0.4	1.4	12	145	30 x 2 x 0.6	1.4	15	260
40 x 2 x 0.4	1.4	13	180	40 x 2 x 0.6	1.4	17	335
50 x 2 x 0.4	1.4	14.5	215	50 x 2 x 0.6	1.4	18.5	405

A : Outdoor cable
 2Y: PE insulation or sheath
 (St) : Static screen

SELF SUPPORTING AERIAL CABLES, A-2Y(L)2Y-T

Application :

For local communication networks. These cables are suitable for stringing along poles.

Construction :

Conductor: solid plain annealed copper

Insulation: Solid PE, type III class A, category 4 or 5 grade E8 as per ASTM D 1248

Core wrap: Heat barrier polyester tape between core and screen

Screen : Aluminum tape coated on both sides with copolymer, longitudinally applied over cable core with overlap

Suspension wire: 7 strands of galvanized steel wires

Jacket : Black PE, type I class C, category 4 or 5 grade J3 as per ASTM D 1248

Standard :

TCI



Electrical data:

Conductor diameter (mm)	Max. conductor resistance at 20°C (Ω/km)	Min. insulation resistance at 20°C (MΩ.km)	Max. mutual capacitance at 1000Hz (nF/km)	Max. capacitance unbalance at 1000Hz (pF/km)	Attenuation (dB/km)		Operating voltage, RMS (V)	Test voltage, DC (kV)
					1024 KHz	1500 KHz		
0.4	147	20000	12 pairs or less : 52 ± 4 (average of all pairs) 58 (maximum any pair) More than 12 pairs : 52 ± 2 (average of all pairs) 57 (maximum any pair)	45 (RMS pair to pair)	25.7	31.2	150	2.4 (for 3 sec.) core to core 10 (for 3 sec.) core to shield 5 (for 3 sec.) shield to suspension
0.6	65				17.3	21		3.5 (for 3 sec.) core to core 10 (for 3 sec.) core to shield 5 (for 3 sec.) shield to suspension
0.8	36				12.74	15.43		5 (for 3 sec.) core to core 10 (for 3 sec.) core to shield 5 (for 3 sec.) shield to suspension

Mechanical data for suspension wire:

Dimensional data:

Min. zinc coating (g/m ²)	Min. tensile strength (N/mm ²)	Cable net weight per 100m (kg)	Tensile strength requirement (kN)	No. of pairs / diameter of conductor (- / mm)	Sheath thickness (mm)	No. & diameter of messenger (mm)	Approx. overall diameter (mm)	Approx. net weight (kg/km)
120	1400	< 25	7	10 x 2 x 0.4	1.4	7x1.2	9.5 x 18.5	180
		25 to 75	12	20 x 2 x 0.4	1.4	7x1.2	11.5 x 20.5	220
		> 75	22	30 x 2 x 0.4	1.4	7x1.2	13 x 22	265
				40 x 2 x 0.4	1.4	7x1.2	14.5 x 23.5	305
				50 x 2 x 0.4	1.4	7x1.2	15.5 x 24.5	340
				70 x 2 x 0.4	1.4	7x1.2	17.5 x 26.5	420
				100 x 2 x 0.4	1.4	7x1.2	20.5 x 29.5	530

A : Outdoor cable

2Y: PE insulation or sheath

(L)2Y: Laminated sheath

T : Suspension wire

Dimensional data:

No. of pairs / diameter of conductor (- / mm)	Sheath thickness (mm)	No. & diameter of messenger (mm)	Approx. overall diameter (mm)	Approx. net weight (kg/km)	No. of pairs / diameter of conductor (- / mm)	Sheath thickness (mm)	No. & diameter of messenger (mm)	Approx. overall diameter (mm)	Approx. net weight (kg/km)
10 x 2 x 0.6	1.4	7x1.2	11.5x20.5	210	10 x 2 x 0.8	1.4	7x1.2	13 x 22	270
20 x 2 x 0.6	1.4	7x1.2	14.5x23.5	300	20 x 2 x 0.8	1.4	7x1.2	16.5x25.5	400
30 x 2 x 0.6	1.4	7x1.2	16.5x25.5	370	30 x 2 x 0.8	1.4	7x1.2	20 x 29	530
40 x 2 x 0.6	1.4	7x1.2	18.5x27.5	450	40 x 2 x 0.8	1.4	7x1.2	22 x 31	650
50 x 2 x 0.6	1.4	7x1.2	19.5x28.5	520	50 x 2 x 0.8	1.4	7x1.2	24 x 33	770
70 x 2 x 0.6	1.4	7x1.2	22 x 31	660	70 x 2 x 0.8	1.4	7x1.2	27 x 36	1000
100 x 2 x 0.6	1.4	7x1.2	32 x 41	910	100 x 2 x 0.8	1.4	7x1.6	32 x 41	1370