

CONDUIT UNFILLED AIR CORE CABLES, CUC

Application :

In local networks for telephone and signal transmission.
These cables are designed for using in conduits. direct burial is not allowed.

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
Inner jacket: Black PE, type I class C, category 4 or 5 grade J3 as per ASTM D 1248
Screen : Aluminum tape coated on both sides with copolymer, longitudinally applied over cable core with overlap
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 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)	45 (RMS pair to pair)	25.7	31.2	225	2.4 (for 3 sec.) core to core 15 (for 3 sec.) core to shield
0.6	65				17.3	21		3 (for 3 sec.) core to core 15 (for 3 sec.) core to shield

Dimensional data:

No. of pairs / diameter of conductor (- / mm)	Inner sheath thickness (mm)	Sheath thickness (mm)	Approx. overall diameter (mm)	Approx. net weight (kg/km)
100 x 2 x 0.4	1.4	1.5	22.5	510
200 x 2 x 0.4	1.4	1.8	29.5	900
300 x 2 x 0.4	1.4	2	35	1280
400 x 2 x 0.4	1.4	2	38	1600
500 x 2 x 0.4	1.4	2.3	42.5	2000
600 x 2 x 0.4	1.4	2.3	46	2500
1000 x 2 x 0.4	1.4	2.5	54	3850
1200 x 2 x 0.4	1.4	2.5	56.5	4400
1800 x 2 x 0.4	1.4	2.8	70	6450
2400 x 2 x 0.4	1.4	2.8	82	8780
100 x 2 x 0.6	1.4	1.8	29.5	940
200 x 2 x 0.6	1.4	2	38	1700
300 x 2 x 0.6	1.4	2.3	45.5	2450
400 x 2 x 0.6	1.4	2.5	52	3200
500 x 2 x 0.6	1.4	2.5	57	3920
600 x 2 x 0.6	1.4	2.5	60	4650
1000 x 2 x 0.6	1.4	2.8	75	7450
1200 x 2 x 0.6	1.4	2.8	80	8800
1800 x 2 x 0.6	1.4	2.8	90	12750
2400 x 2 x 0.6	1.4	2.8	97	16740