



## TRUNK AND DISTRIBUTION CABLE

68.TR.02

### AVAILABLE OPTIONS:

- ▶ Bare Cable 500 / 625 / 750
- ▶ Jacketed Cable 500 / 625 / 750
- ▶ Self Supporting Cable with Messenger of 7 x 1 mm 500 / 625 / 750
- ▶ Flooded constructions are also available
- ▶ Self Supporting Cable with Messenger of 7 x 2 mm 750
- ▶ Self Supporting Cable with Messenger 2.77 mm 500 / 625

### PROPERTIES:

Cable Type	Central Conductor Ω/km	Resistance Aluminum Ω/km	Tube Resistance Ω	Impedance pF/m	Capacitance %	Velocity of Propagation
500	4.4	1.24	75 ± 2	50 ± 3	87	30
625	2.76	0.75				
750	1.87	0.62				

Cable Type	Central Cond. Diameter mm	Insulation Diameter mm	Aluminum Tube Diameter mm	Overall Diameter (With Jacket) mm	Minimum Bend Radius mm
500	2.77	11.43	12.70	14.3	100 (bare) 90 (jacketed)
625	3.48	14.30	15.88	17.4	127 (bare) 114 (jacketed)
750	4.24	17.22	19.05	21.0	180 (bare) 150 (jacketed)

### Attenuation (dB/100m)

Frequency Mhz	500	625	750
5	0.5	0.4	0.4
30	1.3	1.0	0.8
55	1.8	1.5	1.2
108	2.5	2.1	1.7
150	2.9	2.5	2.0
183	3.3	2.8	2.2
250	3.9	3.3	2.7
300	4.3	3.4	2.9
400	5.0	4.2	3.4
500	5.7	4.7	3.9
600	6.3	5.2	4.3
750	7.1	5.8	4.9
1000	8.3	6.8	5.7

In all cases, installation stress is 3,000 N with standard section lengths of 716 m.

Messenger (Optional)	Messenger Type Available for Style	Diameter of Steel Messenger	Rupture Load N
7 x 1 mm	500, 625, 750	3.1 mm	7,600
7 x 2 mm	750	6.2 mm	29,500
2.77 mm	500, 625	2.77 mm	8,000

1. Central conductor made of copper clad aluminum.
2. Gas injected foam polyethylene insulation.
3. Outer conductor, high-purity aluminum tube.
4. Polyethylene jacket (optional).
5. Steel messenger (figure 8 construction).

