



Cable type *7162 - Hybrid*
Size: **Coax 5/8"-HD with 2x empty conduits**

	Units	Nominal	
Construction			
INNER CONDUCTOR			
Material and construction	-	copper wire	
Diameter	mm	3.45	
DIELECTRIC			
Material	-	gas-injected cellular PE	
Diameter	mm	16.0	
OUTER CONDUCTOR			
Material and construction	-	corrugated copper tube	
Diameter over outer conductor	mm	17.2	
OUTER CABLE SHEATH			
Material	-	black polyethylene	
Thickness	mm	1.3	
Overall diameter	mm	19.8	< 20.1
EMPTY CONDUIT			
Material	-	High-density polyethylene	
Construction	-	2x Tubes with sliding ribs inside	
Thickness	mm	2.0	
Outer diameter	mm	12.0	≤ 12.1
OVERALL DIMENSIONS			
Material	-	black polyethylene	
Thickness	mm	0.9	
Overall diameter - Height	mm	32.7	< 33.3
Overall diameter - Wide	mm	25.8	< 26.2

Mechanical characteristics			
Minimum bending radius (on broad side of construction)			
1 x	cm	15	
10 x	cm	30	
Maximum pulling strength (on coaxial cable)			
	daN	115	
Weight			
	kg/km	572	

Electrical characteristics			
Characteristic impedance	Ω	75	+/- 2
Capacity	pF/m	54	
Relative propagation velocity (velocity ratio)	%	82	
DC-resistance of inner conductor at 20°C	Ω/km	1.8	
DC-resistance of outer conductor at 20°C	Ω/km	1.45	
Current rating (50 - 60) Hz	A	23	
Dielectric voltage strength	kV	4	
Longitudinal attenuation at 20°C		$\alpha(f_{[MHz]}) = a \cdot \sqrt{f_{[MHz]}} + b \cdot f_{[MHz]}$	
a =	-	0.169	
b =	-	0.001	
5 MHz	dB/100m	0.38	< 0.40
10 MHz	dB/100m	0.54	< 0.57
30 MHz	dB/100m	0.96	< 1.00
50 MHz	dB/100m	1.25	< 1.31
100 MHz	dB/100m	1.79	< 1.88
200 MHz	dB/100m	2.59	< 2.72
300 MHz	dB/100m	3.23	< 3.39
400 MHz	dB/100m	3.78	< 3.97
470 MHz	dB/100m	4.13	< 4.34
600 MHz	dB/100m	4.74	< 4.98
800 MHz	dB/100m	5.58	< 5.86
860 MHz	dB/100m	5.82	< 6.11
1000 MHz	dB/100m	6.34	< 6.66
Return loss (3 peak values up to 4 dB lower are permissible)			
5 - 470 MHz	dB	> 26	
470 - 862 MHz	dB	> 22	
Screening attenuation (30 - 1000 MHz)			
	dB	>> 120	