



Cable type	underground:	7062
Size: 1/4" - HD	aerial:	

	Units	Nominal
Construction		
INNER CONDUCTOR		
Material and construction	-	copper wire
Diameter	mm	1.4
DIELECTRIC		
Material	-	gas-injected cellular PE
Diameter	mm	6.5
OUTER CONDUCTOR		
Material and construction	-	corrugated copper tube
Diameter over outer conductor	mm	7.5
OUTER SHEATH		
Material	-	black polyethylene
Thickness	mm	1.1
Overall diameter	mm	9.7 < 10.1

Cable with messenger		
MESSANGER		
Material	-	-
Construction	.. X mm	-
Diameter over messenger	mm	-
OVERALL DIMENSIONS	mm	-

Mechanical characteristics			
Minimum bending radius			
	1 x	cm	3
	10 x	cm	5
Maximum pulling strength (without messenger)		daN	35
Weight		kg/km	111

Cable with messenger		
Minimum breaking strength of messenger	daN	-
Modulus of elasticity	N/mm ²	-
Thermal coefficient of linear expansion	1/°C	- x 10 ⁻⁶
Weight	kg/km	172

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	11.2		
DC-resistance of outer conductor at 20°C	Ω/km	3.5		
Current rating (50 - 60) Hz	A	7		
Dielectric voltage strength	kV	1		
Longitudinal attenuation at 20°C	$\alpha(f_{[MHz]}) = a \cdot \sqrt{f_{[MHz]}} + b \cdot f_{[MHz]}$			
	a =	-	0.418	
	b =	-	0.0011	
	5 MHz	dB/100m	0.94	< 0.99
	10 MHz	dB/100m	1.33	< 1.40
	30 MHz	dB/100m	2.32	< 2.44
	50 MHz	dB/100m	3.01	< 3.16
	100 MHz	dB/100m	4.29	< 4.50
	200 MHz	dB/100m	6.13	< 6.44
	300 MHz	dB/100m	7.57	< 7.95
	400 MHz	dB/100m	8.80	< 9.24
	470 MHz	dB/100m	9.58	< 10.06
	600 MHz	dB/100m	10.90	< 11.44
	800 MHz	dB/100m	12.70	< 13.34
	860 MHz	dB/100m	13.20	< 13.86
	1000 MHz	dB/100m	14.32	< 15.03
Return loss (3 peak values up to 4 dB lower are permissible)				
	5 - 470 MHz	dB	> 23	
	470 - 862 MHz	dB	> 20	
Screening attenuation (30 - 1000 MHz)		dB	>> 120	

