



Cable type	Standard:	7088 V
Size: 2.0/8.3		

	Units	Nominal
Construction		
INNER CONDUCTOR		
Material and construction	-	copper wire
Diameter	<i>mm</i>	2.02
DIELECTRIC		
Material	-	gas-injected cellular PE
Diameter	<i>mm</i>	8.6
OUTER CONDUCTOR		
Material and construction	-	corrugated copper tube
Diameter over outer conductor	<i>mm</i>	9.3
OUTER SHEATH		
Material		black polyethylene
Thickness	<i>mm</i>	1.0
Overall diameter	<i>mm</i>	11.3 < 11.7

Mechanical characteristics			
Minimum bending radius			
	1 x	<i>cm</i>	8
	10 x	<i>cm</i>	15
Maximum pulling strength		<i>daN</i>	50
Weight		<i>kg/km</i>	145

Electrical characteristics				
Characteristic impedance		Ω	75	+/- 2
Capacity		<i>pF/m</i>	50	
Relative propagation velocity (velocity ratio)		%	88	
DC-resistance of inner conductor at 20°C		Ω/km	5.3	
DC-resistance of outer conductor at 20°C		Ω/km	2.6	
Current rating (50 - 60) Hz		<i>A</i>	11	
Dielectric voltage strength		<i>kV</i>	2	
Longitudinal attenuation at 20°C			$\alpha(f_{[MHz]}) = a \cdot \sqrt{f_{[MHz]}} + b \cdot f_{[MHz]}$	
	a =	-	0.296	
	b =	-	0.00085	
	5 MHz	<i>dB/100m</i>	0.67	< 0.70
	10 MHz	<i>dB/100m</i>	0.94	< 0.99
	30 MHz	<i>dB/100m</i>	1.65	< 1.73
	50 MHz	<i>dB/100m</i>	2.14	< 2.24
	100 MHz	<i>dB/100m</i>	3.05	< 3.20
	200 MHz	<i>dB/100m</i>	4.36	< 4.57
	300 MHz	<i>dB/100m</i>	5.38	< 5.65
	400 MHz	<i>dB/100m</i>	6.26	< 6.57
	470 MHz	<i>dB/100m</i>	6.82	< 7.16
	600 MHz	<i>dB/100m</i>	7.76	< 8.15
	800 MHz	<i>dB/100m</i>	9.05	< 9.50
	860 MHz	<i>dB/100m</i>	9.41	< 9.88
	1000 MHz	<i>dB/100m</i>	10.21	< 10.72
Return loss (3 peak values up to 4 dB lower are permissible)				
	5 - 470 MHz	<i>dB</i>	> 23	
	470 - 862 MHz	<i>dB</i>	> 20	
Screening attenuation (30 - 1000 MHz)		<i>dB</i>	>> 120	

