



Cable type	Standard:	7198G
Size: 4.8/19.4		
Cable with PE outer jacket.		
Compliant to EN 50575 (reaction to fire: F_{ca})		

	Units	Nominal	
Construction			
INNER CONDUCTOR			
Material and construction	-	copper wire	
Diameter	mm	4.75	
DIELECTRIC			
Material	-	gas-injected cellular PE	
Diameter	mm	19.4	
OUTER CONDUCTOR			
Material and construction	-	smooth copper tube	
Diameter over outer conductor	mm	20.0	
OUTER SHEATH			
Material	-	black polyethylene	
Thickness	mm	2.2	
Overall diameter	mm	24.4	< 24.8

Mechanical characteristics			
Minimum bending radius			
	1 x	cm	25
	10 x	cm	45
Maximum pulling strength (without messenger)		daN	166
Weight		kg/km	525

Electrical characteristics			
Characteristic impedance	Ω	75	+/- 2
Capacity	pF/m	50	
Relative propagation velocity (velocity ratio)	%	88	
DC-resistance of inner conductor at 20°C	Ω/km	.95	
DC-resistance of outer conductor at 20°C	Ω/km	1.14	
Current rating (50 - 60) Hz	A	34	
Dielectric voltage strength	kV	2	
Longitudinal attenuation at 20°C	$\alpha(f_{[MHz]}) = a \cdot \sqrt{f_{[MHz]}} + b \cdot f_{[MHz]}$		
	a =	-	0.129
	b =	-	0.000616
	5 MHz	dB/100m	0.29 < 0.31
	10 MHz	dB/100m	0.41 < 0.43
	30 MHz	dB/100m	0.73 < 0.76
	50 MHz	dB/100m	0.94 < 0.99
	100 MHz	dB/100m	1.35 < 1.42
	200 MHz	dB/100m	1.95 < 2.04
	300 MHz	dB/100m	2.42 < 2.54
	400 MHz	dB/100m	2.83 < 2.97
	470 MHz	dB/100m	3.09 < 3.24
	600 MHz	dB/100m	3.53 < 3.71
	800 MHz	dB/100m	4.14 < 4.35
	860 MHz	dB/100m	4.31 < 4.53
	1000 MHz	dB/100m	4.70 < 4.9
	1200 MHz	dB/100m	5.2 < 5.5
	1500 MHz	dB/100m	5.9 < 6.2
	1700 MHz	dB/100m	6.4 < 6.7
	2000 MHz	dB/100m	7.0 < 7.4
	3000 MHz	dB/100m	8.9 < 9.4

Return loss (3 peak values up to 4 dB lower are permissible)		
	5 - 470 MHz	dB > 30
	470 - 1000 MHz	dB > 26
	1000 - 1500 MHz	dB > 21
	1500 - 1700 MHz	dB *

Screening attenuation (30 - 3000 MHz)		
		dB > 120

*) values to be defined