

Co-axial Cable RG 214

Parameters					Specifications				
DESIGN									
Inner conductor Stranded wire silver – plated 7 x 0.75					Φ 2.25 mm				
Insulation of Polyethylene (PE)					Φ 7.25 mm				
Shield braiding of silver –plating copper wires 0.16 mm diameter coverage about 95%					Φ 8.9 mm				
ELECTRICAL PARAMETER AT 20° C									
Conductor resistance					≤ 6.2 Ω / km				
Insulation resistance					≥10 GΩ / km				
Operating Voltage (peak)					≤ 250 Volt				
Characteristic impedance					50±2 Ω				
Capacitance 800Hz					101 PF /m				
Test voltage (wire / screen rms 50Hz 1 min)					5 KV				
Relative velocity of propagation					66 %				
Operating Temperature					-40 oC to +80 oC				
Frequency(MHz)	100	200	300	400	500	1000	1300	2000	2500
Attenuation(dB/100m)	5.2	8.0	10.4	12.7	14.8	24.8	29.8	41.6	49.6
MECH. AND THERMAL CHARACTERISTIC									
Conductor / Screen material					Acc. to DIN EN 13602Cu-ETP-A				
Insulating material					Acc. to DIN 50290-2-23(VDE 0819), Table L / MD (HD 624.3)				
Jacket Test					Acc. to DIN EN 50290-2-27(HD 624.7)				
Flame test					Acc. To IEC60332-1				
Bending diameter allowed					Multiple 10 x Φ , Single 7.5 x Φ				
Weight Approx.					215 Kg /km				
JACKET									
Thermoplastic copolymer (FRNC)					BK				
Wall thickness					1.2 mm				
Text intervals					0.5 meter				



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Conductor Material	Annealed Bare Copper
Conductor Diameter	7 / 0.75 ± 0.03 mm
Conductor Bunch Diameter	2.26 ± 0.03 mm
Insulation Material Dielectric	Polyethylene
Insulation Core Diameter	7.24 ± 0.18 mm
Insulation Color	Natural
BRAIDING	16 x 10 x 0.180 ABC mm
BRAIDING DIAMETER OUTER	< 8.64 mm
Coverage	95.30 %
Sheath material	PVC
Sheath Diameter	10.29 ± 0.18 mm
Outer Sheath Thickness	NS mm
Color of Sheath	Black
ELECTRICAL PARAMETER AT 20° C	
Conductor Resistance	< 0.580 ohm / 100 m
Mutual Capacitance	< 96.80 pF / m
Insulation Resistance	> 23000 MΩ / km
Dielectric Strength (AC)	10 KV / 3 Seconds
Characteristic Impedence at 200MHz	$50 \pm 2\Omega$
Attenuation at 400MHz	< 17.0 dB / 100 m
Attenuation at 3.0GHz	< 62.3 dB / 100 m
MECHANICAL CHARACTERISTIC	
Tensile Strength Insulation	>12.5 N/mm ²
Elongation Insulation	300%
Tensile Strength Sheath	>12.5 N/mm ²
Bend Radius / Minor Axis	127 mm
Weight , Approx	160 gm / m

