





## COAXIAL CABLES

				
<b>Cable name</b>	YWL 50 0,45/1,3	RG 174	RG 58	TRIAX 58 A/U
<b>Product No.</b>	0259 004	0221 023	0221 012	0611 001

CONSTRUCTION				
<b>Inner conductor:</b> material number and diameter of wires [mm] diameter [mm]	Cu 7x0.15 0.45	FeCu 7x0.16 0.48	CuSn 19x0.18 0.9	CuSn 7x0.32 0.96
<b>Insulation:</b> material diameter [mm]	PE 1.3	PE 1.52	PE 3.0	PE 3.0
<b>Outer conductor:</b> Material and construction	Cu braid	CuSn braid (86%)	CuSn braid	CuSn braid PE insulation, 4.45 mm CuSn braid
<b>Sheath:</b> material colour	PVC black and white	PVC black and white	PVC black and white	PVC yellow
<b>Outer diameter [mm]</b>	2.7	2.8	4.95	6.1

ELECTRICAL PARAMETERS AT 20°C				
<b>Characteristic impedance [<math>\Omega</math>]</b>	50 $\pm$ 2	50 $\pm$ 2	50 $\pm$ 2	50 $\pm$ 2
<b>Capacitance [pF/m]</b> at f=1 kHz	97.8	100.0	103.0	100.0
<b>Velocity of propagation [%]</b>	66	66	66	66
<b>DC resistance [m<math>\Omega</math>/m]:</b> inner conductor outer conductor	152 45.3	317 43.0	32.5 13.4	31.0 15.5/14.1
<b>Attenuation [dB/100 m] – average, at frequency [MHz]:</b> 50 100 200 800 1000	21.3 30.4 43.1 90.0 101.7	19.0 30.0 45.0 84.0 92.0	10.5 15.4 22.6 50.1 58.3	10.8 16.1  78.7
<b>Return loss [dB] - min.</b>	20	20	20	20
<b>Shielding attenuation [dB] - min.</b>	40	40	40	40

OTHERS DATA				
<b>Reference standards</b>	MIL-C-17	MIL-C-17/119 G	MIL-C-17/28	DT 22/06/03
<b>Operating temperature range [°C]</b>	-20 $\div$ +70	-40 $\div$ +70	-40 $\div$ +70	-40 $\div$ +70
<b>Minimum bending radius [mm]</b>	15	15	25	50
<b>Weight [kg/km]</b>	11.5	12.0	40.0	61.0

<b>APPLIED ABBREVIATIONS</b>				
Cu	: bare copper	PE	: polyethylene	
Fe-Cu	: copper-clad steel	Al/PETP	: aluminium/polyester (2 layers) tape	
Cu-Sn	: tinned copper	Al/PETP/Al.	: aluminium/polyester/aluminium (3 layers) tape	
PVC	: polyvinyl chloride	AL/Cop	: copolymer coated aluminium tape	
<b>AVAILABLE OPTIONS AVAILABLE UPON REQUEST</b>				
Halogen free cables are also available (RG-H; HWD; HWL,...).				
Other colours on request.				