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COAXIAL CABLES

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

CONSTRUCTION				
Inner conductor: 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
Insulation: material diameter [mm]	PE 1.3	PE 1.52	PE 3.0	PE 3.0
Outer conductor: Material and construction	Cu braid	CuSn braid (86%)	CuSn braid	CuSn braid PE insulation, 4.45 mm CuSn braid
Sheath: material colour	PVC black and white	PVC black and white	PVC black and white	PVC yellow
Outer diameter [mm]	2.7	2.8	4.95	6.1

ELECTRICAL PARAMETERS AT 20°C				
Characteristic impedance [Ω]	50 $\pm$ 2	50 $\pm$ 2	50 $\pm$ 2	50 $\pm$ 2
Capacitance [pF/m] at f=1 kHz	97.8	100.0	103.0	100.0
Velocity of propagation [%]	66	66	66	66
DC resistance [mΩ/m]: inner conductor outer conductor	152 45.3	317 43.0	32.5 13.4	31.0 15.5/14.1
Attenuation [dB/100 m] – average, at frequency [MHz]: 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
Return loss [dB] - min.	20	20	20	20
Shielding attenuation [dB] - min.	40	40	40	40

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

APPLIED ABBREVIATIONS				
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	
AVAILABLE OPTIONS AVAILABLE UPON REQUEST				
Halogen free cables are also available (RG-H; HWD; HWL,...). Other colours on request.				