

COAXIAL CABLES

Cable type	YWL 50-0,45/1,3	RG 058	YWLek 50-2,25/7,25	RG 213
Code number	5.9.007	5.9.051	5.9.013	5.9.058
Standard	PN-91/T-90601	MIL-C-17/28	PN-91/T-90601	MIL-C-17/74 C

CABLE CONSTRUCTION

Inner conductor: material wire number and diameter [mm] conductor diameter [mm]	plain copper 7x0,15 0,45	tinned copper 19x0,18 0,9	plain copper 7x0,75 2,25	plain copper 7x0,75 2,25
Insulation: dielectric diameter [mm]	solid polyethylene (PE) 1,3	solid polyethylene (PE) 3,0	solid polyethylene (PE) 7,3	solid polyethylene (PE) 7,3
Outer conductor: material and construction	plain copper wire braid	tinned copper wire braid	Al/PETP/Al tape and tinned copper wire braid	plain copper wire braid
Outer sheath: material colour	PVC black or white	PVC black or white	PVC black or white	PVC black
Cable outer diameter [mm]	2,7	4,95	10,1	10,2

ELECTRICAL PROPERTIES AT 20°C

Characteristic impedance [Ω]	50 \pm 2	50 \pm 2	50 \pm 2	50 \pm 2
Capacitance [pF/m] at frequency 1 kHz	97,8	103	100	100,7
Velocity ratio [%]	66	66	66	66
D.C. resistance [mΩ/m]: inner conductor outer conductor	152,0 45,3	31,4 13,2	5,7 12,7	5,6 5,5
Attenuation [dB/100 m] - average value at frequency [MHz]: 1 50 100 200 300 500 800 1000 1500 2000 2400	3,2 21,3 30,4 43,1 53,2 69,8 90,0 101,7 - - -	1,1 10,5 15,4 22,6 28,4 37,8 50,1 58,3 - - -	0,9 3,9 5,4 7,9 10,1 13,8 18,4 21,1 31,1 34,1 38,5	0,6 4,5 6,5 9,4 11,9 16,2 21,7 25,1 32,5 39,5 46,1

OTHER DATA

Operating temperature range [°C]	-20 \div +70	-20 \div +70	-20 \div +70	-30 \div +70
Minimum bending radius [mm]	15	50	62	62
Total weight [kg/km]	11,5	40	130	154



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COAXIAL CABLES

Cable type	YWD 75-0,5/2,9	YWD and XWD 75-0,59/3,7	RG 59	RG 59 B/U
Code number	5.8.034	5.8.011 and 5.8.012	5.9.052	5.9.068
Standard	PN-91/T-90601	PN-91/T-90601	MIL-C-17/29C	MIL-C-17/29C

CABLE CONSTRUCTION

Inner conductor: material wire number and diameter [mm] conductor diameter [mm]	plain copper 1x0,5 0,5	plain copper 1x0,59 0,59	copper clad steel 1x0,59 0,59	plain copper 1x0,59 0,59
Insulation: dielectric diameter [mm]	solid polyethylene (PE) 2,9	solid polyethylene (PE) 3,0	solid polyethylene (PE) 3,7	solid polyethylene (PE) 3,7
Outer conductor: material and construction	plain copper wire braid	plain copper wire braid	plain copper wire braid	plain copper wire braid
Outer sheath: material colour	PVC white	PVC (Y) or PE (X) black or white black	PVC black	PVC black or white
Cable outer diameter [mm]	5,0	5,9	6,15	6,15

ELECTRICAL PROPERTIES AT 20°C

Characteristic impedance [Ω]	75 \pm 5	75 \pm 3	75 \pm 3	75 \pm 3
Capacitance [pF/m] at frequency 1 kHz	69,6	65,1	66,5	65,7
Velocity ratio [%]	66	66	66	66
D.C. resistance [m Ω /m]: inner conductor outer conductor	86,2 57,6	60,4 16,2	145,0 7,7	59,2 7,6
Attenuation [dB/100 m] - average value at frequency [MHz]:				
1	1,6	1,0	1,4	1,0
50	9,7	7,4	7,7	7,7
100	15,0	10,7	11,3	11,1
200	22,9	15,5	16,5	16,2
300	27,3	19,4	20,5	20,4
500	37,0	25,9	27,3	27,2
800	50,2	33,7	35,6	35,5
1000	54,0	38,1	40,5	40,4
1500	-	47,9	50,0	50,1
2000	-	55,4	57,9	56,6
2400	-	57,9	59,5	58,1

OTHER DATA

Operating temperature range [°C]	-20 \div +70	PVC (-20 \div +70) PE (-40 \div +70)	-20 \div +70	-20 \div +70
Minimum bending radius [mm]	50	60	60	60

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Total weight [kg/km]	29	43	59	56,5
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COAXIAL CABLES

Cable type	YWDek and XWDek 75-0,59/3,7	YWL and XWL 75-0,6/3,7	YWDek and XWDek 75-0,75/4,8	YWLXpek & XWLXpek 75-0,45/2,0
Code number	5.8.031 and 5.8.035	5.9.019 and 5.9.020	5.8.017	5.9.106
Standard	PN-91/T-90601	PN-91/T-90601	WT-90/K-354	IEC 96-2

CABLE CONSTRUCTION

Inner conductor: material wire number and diameter [mm] conductor diameter [mm]	Cu 1x0,59 0,59	Cu 7x0,2 0,6	Cu 1x0,75 0,75	Cu 7x0,15 0,45
Insulation: dielectric diameter [mm]	solid polyethylene (PE) 3,7	solid polyethylene (PE) 3,7	solid polyethylene (PE) 4,8	polyethylene foam 2,0
Outer conductor: material and construction	Al/PETP tape and tinned copper wire braid	plain copper wire braid	Al/PETP/Al tape and tinned copper wire braid	Al/PETP tape and tinned copper wire braid
Outer sheath: material colour	PVC (Y) or PE (X) black or white black	PVC (Y) or PE (X) black or white black	PVC (Y) or PE (X) black or white black	PVC (Y) or PE (X) black or white black
Cable outer diameter [mm]	5,8	5,9	7,3	3,6

ELECTRICAL PROPERTIES AT 20°C

Characteristic impedance [Ω]	75 \pm 3	75 \pm 3	75 \pm 3	75 \pm 3
Capacitance [pF/m] at frequency 1 kHz	67,4	64,7	67,1	60,6
Velocity ratio [%]	66	66	66	79
D.C. resistance [m Ω /m]: inner conductor outer conductor	60,9	84,2 16,3	38,7 13,0	176,0 16,6
Attenuation [dB/100 m] - average value at frequency [MHz]:				
1	1,2	1,2	0,9	1,9
50	7,2	8,4	5,8	11,8
100	10,1	11,7	8,4	16,9
200	14,7	16,8	11,7	24,4
300	18,6	21,0	14,8	30,2
500	25,4	27,9	20,0	39,1
800	33,0	36,0	26,5	49,6
1000	37,3	40,9	30,3	55,7
1500	46,9	51,9	38,5	-
2000	54,7	61,4	45,6	-
2400	57,2	68,5	50,9	-

OTHER DATA

Operating temperature range [°C]	PVC (-20 \div +70)	PE (-40 \div +70)	PVC (-20 \div +70)	PE (-40 \div +70)	PVC (-20 \div +70)	PE (-40 \div +70)	PVC (-20 \div +70)	PE (-40 \div +70)
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Minimum bending radius [mm]	60	60	60	40
Total weight [kg/km]	35	42	64,5	17,5

COAXIAL CABLES

Cable type	YWDXpek & XWDXpek 75-1,05/5,0	59F 75-0,8/3,8	11F 75-1,6/7,3	RG 062
Code number	5.8.022 and 5.8.026	5.8.101	5.8.106	5.9.053
Standard	IEC 96-2A	IEC 96-2	IEC 96-2	MIL-C-17/30D

CABLE CONSTRUCTION

Inner conductor: material wire number and diameter [mm] conductor diameter [mm]	Cu 1x1,05 1,05	Cu 1x0,8 0,8	Cu 1x1,6 1,6	copper covered steel 1x0,64 0,64
Insulation: dielectric diameter [mm]	polyethylene foam 5,0	polyethylene foam 3,8	polyethylene foam 7,25	air-spaced polyethylene 3,7
Outer conductor: material and construction	Al/PETP/Al tape and tinned copper wire braid	Al/PETP/Al tape and tinned copper wire braid	Al/PETP/Al tape and tinned copper wire braid	plain copper wire braid
Outer sheath: material colour	PVC (Y) or PE (X) black or white black	PVC black or white	PVC black or white	PVC black
Cable outer diameter [mm]	7,6	6,0	10,0	6,15

ELECTRICAL PROPERTIES AT 20°C

Characteristic impedance [Ω]	75 \pm 3	75 \pm 3	75 \pm 3	93 \pm 5
Capacitance [pF/m] at frequency 1 kHz	57,2	55,7	58,5	44,5
Velocity ratio [%]	78	78	78	83
D.C. resistance [mΩ/m]: inner conductor outer conductor	20,1 13,5	35,6 23,3	8,0 14,5	138,5 8,0
Attenuation [dB/100 m] - average value at frequency [MHz]: 1 50 100 200 300 500 800 1000 1500 2000 2400	0,9 4,5 6,1 8,8 11,0 14,7 19,4 22,2 28,2 33,4 37,5	1,2 6,0 8,3 11,8 14,8 19,8 25,8 29,2 35,5 41,4 46,2	0,6 3,1 4,4 6,4 8,0 10,6 14,0 16,0 20,6 25,0 29,4	1,3 6,3 9,2 12,6 15,6 20,4 26,1 30,8 - - -

OTHER DATA



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Operating temperature range [°C]	PVC (-20 ÷ +70)	PE (-40 ÷ +70)	-20 ÷ +70	-20 ÷ +70	-20 ÷ +70
Minimum bending radius [mm]	75		70	120	60
Total weight [kg/km]	63		37	93	56

COAXIAL & TWINAXIAL CABLES

Cable type	RG 71	RG 58 (3) C/U	11F 75 (3) 1,6/7,3	RG 108
Code number	5.9.055	5.9.070	5.8.114	5.9.063
Standard	MIL-C-17/90A	MIL-C-17/28	IEC 96-2	MIL-C-17/45

CABLE CONSTRUCTION

Inner conductor(s): material wire number and diameter [mm] conductor diameter [mm]	1 copper clad steel 1x0,64 0,64	1 tinned copper 19x0,18 0,9	1 Cu 1x1,6 1,6	2 (twisted pair) tinned copper 7x0,3 0,9
Insulation: dielectric diameter [mm]	air-spaced polyethylene 3,7	solid polyethylene 2,95	polyethylene foam 7,25	solid polyethylene 2,0
Outer conductor: material and construction	plain copper wire braid and tinned copper wire braid	tinned copper wire braid	Al/PETP/Al tape and tinned copper wire braid	PET tape, tinned copper wire braid
Outer sheath: material colour	PE black	Al/ PE moisture barrier, jelly filled black	Al/PE moisture barrier, jelly filled black	PVC black
Cable outer diameter [mm]	6,2	6,8	11,5	6,0

ELECTRICAL PROPERTIES AT 20°C

Characteristic impedance [Ω]	93 ± 5	50 ± 2	75 ± 3	78 ± 7
Capacitance [pF/m] at frequency 1 kHz	43,4	103	60	68
Velocity ratio [%]	83	78	78	66
D.C. resistance [m.Ω/m]: inner conductor outer conductor	134,0 4,5	32,5 14,7	8,0 14,5	34,5 18,0
Attenuation [dB/100 m] - average value at frequency [MHz]:				
1	1,5	1,9	0,6	2,5
50	6,5	11,4	3,1	17,2
100	9,3	16,6	4,4	26,0
200	13,3	24,2	6,4	-
300	16,5	30,7	8,0	-
500	21,6	41,5	10,6	-
800	28,1	55,1	14,0	-
1000	31,8	61,7	16,0	-
1500	-	80,3	20,6	-
2000	-	100,8	25,0	-
2400	-	-	29,4	-

OTHER DATA

Operating temperature range [°C]	-40 ÷ +70	-40 ÷ +70	-40 ÷ +70	-30 ÷ +70
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Minimum bending radius [mm]	60	70	140	30
Total weight [kg/km]	57	58	111	45

ABBREVIATIONS

PVC : polyvinyl chloride
 PE : polyethylene
 Al : aluminium
 PETP : polyethylene terephthalate
 Al/PETP : aluminium foil laminated with PETP-foil
 Al/PETP/Al : PETP-foil laminated on both sides with aluminium foil

MADE TO ORDER

Outdoor- and underground- cables, jelly filled and/or double sheathed, other colours of outer sheath etc. - on request.



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