



Photo: HELUKABEL®

# Coaxial cables · Video cables Loudspeaker cables

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# Coaxial cables · Video cables Loudspeaker cables

Coaxial cables are used in all areas of the high frequency transmission technology, for example in medicine, military or in communication sectors. Because of the wide spectrum of coaxial and video or TV cables, which HELUKABEL® has on stock, the most requirements are covered. Naturally we also offer special constructions for you.

HELUKABEL® supply RG-coaxial cables or RG-multi coaxial cables according to the american military standard MIL-C-17.

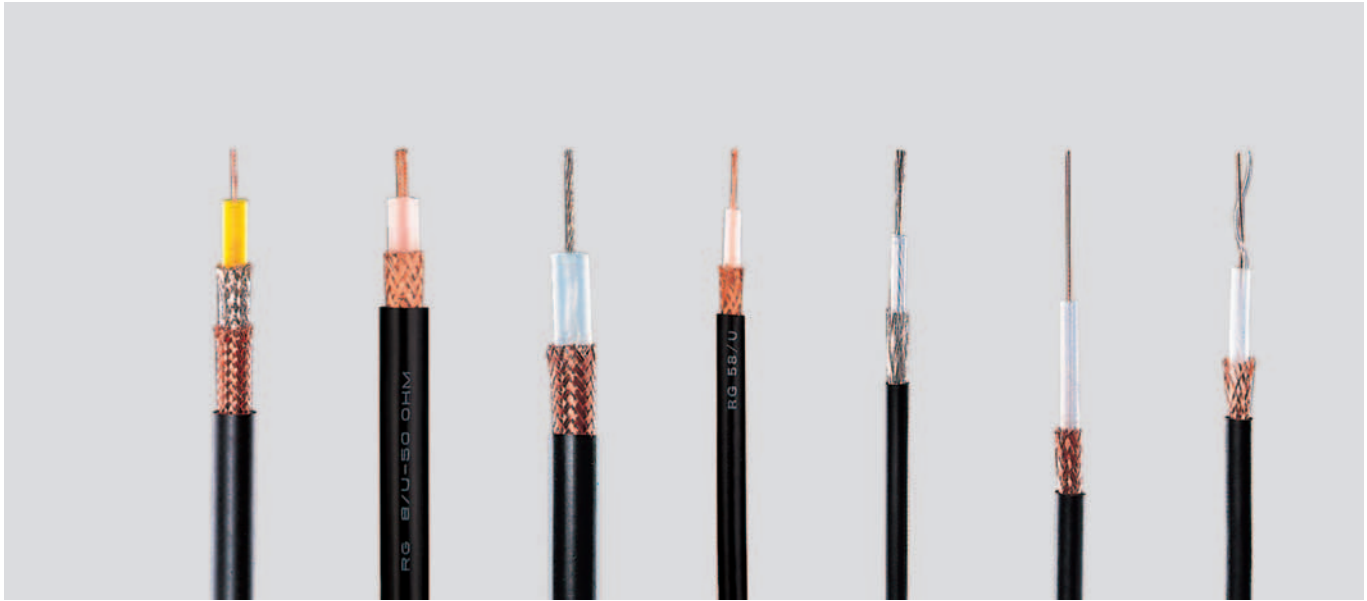
The coaxial cables for satellite receivers and TV aerials as well as video cables are designed according to the respective specified standards.

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# RG-Coaxial cables



RG-Type ... /U	6	8	11	58	058	59	062
Part No.	40001	40013	40002	40014	40003	40004	40005
<b>Cable structure</b>							
Inner conductor	StCu-bare	Cu-bare	Cu-tinned	Cu-bare	Cu-tinned	StCu-bare	StCu-bare
∅ mm	1 x 0,72	7 x 0,72	7 x 0,4	16 x 0,20	19 x 0,18	1 x 0,6	1 x 0,65
Insulation	PE	PE	PE	PE	PE	PE	PE-air
∅ mm	4,7	6,4	7,3	2,95	2,95	3,7	3,7
Outer conductor	2 braidings 2 x Cu-silverplated	braiding Cu-bare	2 braidings Cu-bare	2 braidings Cu-bare	braiding Cu-bare	2 braidings 2 x Cu-silverplated	braiding Cu-silverplated
Outer jacket	PVC	PVC	PVC	PVC	PVC	PVC	PVC
Min. bending radius approx. mm	40	50	50	25	25	30	30
Temperature range °C	-35 to +80	-35 to +80	-35 to +80	-35 bis +80	-35 to +80	-35 to +80	-35 to +80
Cu weight kg/km	67,0	62,0	58,0	21,0	21,0	26,0	26,0
Approx. outer ∅ ca. mm	8,4	9,5	10,3	4,95	4,95	6,2	6,15
Approx. weight kg/km	115	128	140	38	38	57	52
<b>Electrical characteristics</b>							
<b>Impedance</b>							
(Ohm)	<b>75 ± 3</b>	<b>50 ± 2</b>	<b>75 ± 3</b>	<b>50 ± 2</b>	<b>50 ± 2</b>	<b>75 ± 3</b>	<b>93 ± 5</b>
Frequency range							
f (max) GHz	3	3	3	3	3	3	3
Propagation velocity							
v/c	0,66	0,66	0,66	0,66	0,66	0,66	0,83
Attenuation at 20 °C (dB/100 m)							
100 MHz	8,8	8,0	7,5	17,0	17,0	11,5	10,5
200 MHz	13,5	10,8	11,0	24,0	24,0	16,5	15,0
500 MHz	21,0	17,0	18,5	39,0	39,0	27,0	24,5
800 MHz	27,5	25,0	24,0	51,0	51,0	35,0	32,5
1000 MHz	-	26,5	30,0	57,2	56,0	41,0	35,0
1350 MHz	-	30,6	-	63,4	-	-	-
1750 MHz	-	35,0	-	-	-	-	-
Approx. capacitance pF/m	67	101	67	101	101	67	42,5
Rel. velocity of propagation %	67	66	67	67	67	67	83
Insulation resistance MΩm x km min.	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>
Loop resistance max. (Ωm/km)	110	11,5	23	53	53	171	13
Nominal peak voltage kVs	2,8	5,1	5,2	2,5	2,5	3,5	1,1
Dielectric strength 50 Hz kVeff	7,0	9,5	10	5,0	5,0	7,0	3,0

RG ... /U = Basetype to MIL-C-17

Continuation ►

## Application

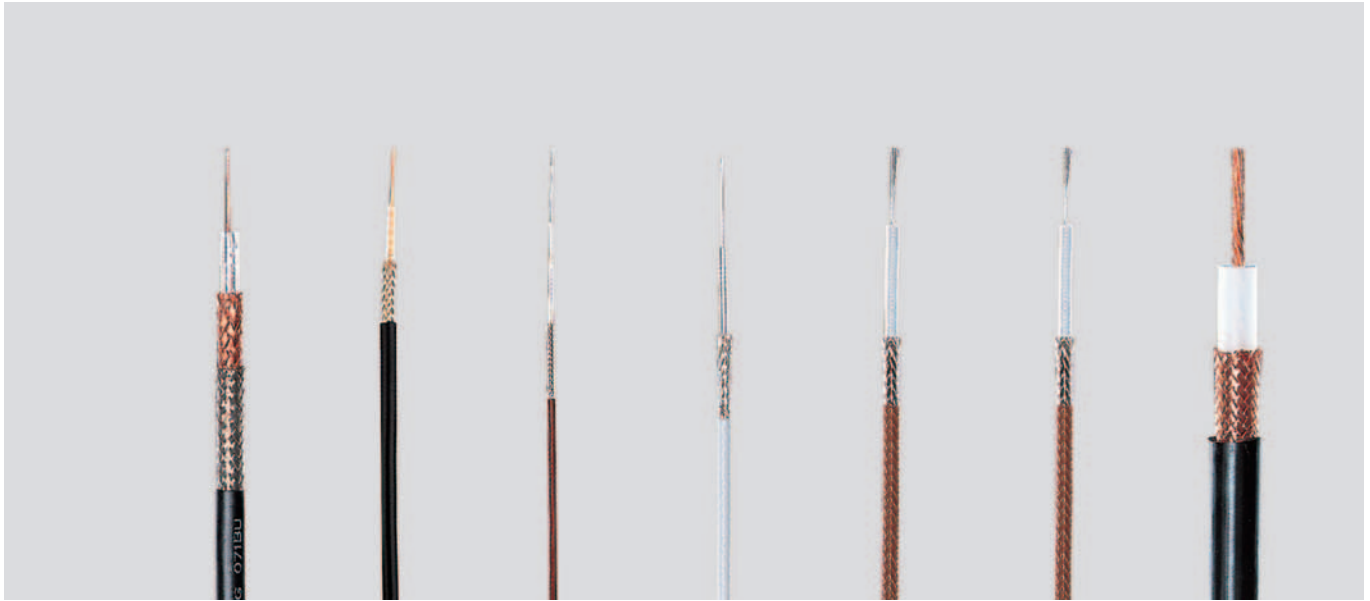
Coaxial cables are used in high frequency transmission, especially for transmitters and receivers, computers, radio and TV transmissions. The varied mechanical, thermal and electronic properties of Coaxial cables mean that they can be used up into the GHz levels, as per cable type.

– The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

RG-Coaxial types are in accordance with US-Military specifications MIL-C-17. Further types available on request. Please also note our multi-core versions.

RG/U: R = Radio, G = Guide, U = Utility

# RG-Coaxial cables



RG-Type .../U	71	174	178	179	180	187	213
Part No.	40006	40197	40007	40008	40009	40010	40012
<b>Cable structure</b>							
Inner conductor	StCu-bare	StCu-bare	StCu-silverplated	StCu-silverplated	StCu-silverplated	StCu-silverplated	StCu-bare
∅ mm	1 x 0,65	7 x 0,16	7 x 0,10	7 x 0,10	7 x 0,10	7 x 0,10	7 x 0,75
Insulation	PE-air	PE	PTFE	PTFE	PTFE	PTFE	PE
∅ mm	3,7	1,52	0,86	1,60	2,60	1,60	7,24
Outer conductor	2 braidings 1. Cu-bare 2. Cu-tinned	braiding Cu-tinned	braiding Cu-silverplated	braiding Cu-silverplated	braiding Cu-silverplated	braiding Cu-silverplated	braiding Cu-bare
Outer jacket	PE	PVC	FEP*	FEP*	FEP*	PFA*	PVC
Min. bending radius approx. mm	30	15	10	15	25	15	50
Temperature range °C	-50 to +70	-35 to +80	-55 to +200	-55 bis +200	-55 to +200	-55 to +200	-35 to +80
Cu weight kg/km	48,0	7,0	6,4	7,3	11,0	8,5	79,0
Approx. outer ∅ mm	6,2	2,8	1,80	2,54	3,70	2,65	10,3
Approx. weight kg/km	62	11	8	16,5	28	17	159
<b>Electrical characteristics</b>							
<b>Impedance (Ohm)</b>							
	<b>93 ± 3</b>	<b>50 ± 2</b>	<b>50 ± 2</b>	<b>75 ± 3</b>	<b>95 ± 5</b>	<b>75 ± 3</b>	<b>50 ± 2</b>
Frequency range f (max) GHz	3	1	3	3	3	3	3
Propagation velocity v/c	0,83	0,66	0,70	0,70	0,70	0,70	0,66
Attenuation at 20° C (dB/100 m)							
100 MHz	10,5	30,0	43,0	28,0	20,0	28,0	7,0
200 MHz	15,0	45,0	62,0	41,0	33,0	41,0	10,2
500 MHz	24,5	73,0	102,0	69,0	69,0	69,0	17,0
800 MHz	32,5	93,0	134,0	92,0	92,0	92,0	23,0
Approx. capacitance pF/m	42,5	101	93	63	50	64	101
Rel. velocity of propagation %	83	70	70	70	70	70	100
Insulation resistance MOhm x km min.	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>
Loop resistance max. (Ohm/km)	136	360	860	840	840	840	10
Nominal peak voltage kVs	1,5	1,1	1,1	1,3	1,6	1,3	5,2
Dielectric strength 50 Hz kVeff	3,0	2,0	2,0	2,0	2,0	2,0	10

RG ... /U = Basetype to MIL-C-17

Continuation ►

## Application

Coaxial cables are used in high frequency transmission, especially for transmitters and receivers, computers, radio and TV transmissions. The varied mechanical, thermal and electronic properties of Coaxial cables mean that they can be used up into the GHz levels, as per cable type.

– The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

\* Colour outer jacket black or transparent as per production outlet.  
RG-Coaxial types are in accordance with US-Military specifications MIL-C-17.  
Further types available on request. Please also note our multi-core versions.

RG/U: R = Radio, G = Guide, U = Utility

# RG-Coaxial cables



RG-Type ... /U	214	215	216	217	218	223	316
Part No.	40011	40198	40199	40200	40201	40202	40203
<b>Cable structure</b>							
Inner conductor	Cu-silverplated	Cu-bare	Cu-tinned	Cu-bare	Cu-bare	Cu-silverplated	StCu-silverplated
∅ mm	7 x 0,75	7 x 0,75	7 x 0,40	2,70	4,95	0,90	7 x 0,17
Insulation	PE	PE	PE	PE	PE	PE	PTFE*
∅ mm	7,24	7,24	7,24	9,4	17,30	2,95	1,52
Outer conductor	2 braidings 2 x Cu-silverplated	braiding Cu-bare	2 braidings Cu-bare	2 braidings Cu-bare	braiding Cu-bare	2 braidings 2 x Cu-silverplated	braiding Cu-silverplated
Outer jacket	PVC	PVC	PVC	PVC	PVC	PVC	PTFE/alt. FEP
Min. bending radius approx. mm	50	70	50	70	110	25	15
Temperature range °C	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-55 to +200
Cu weight kg/km	119,0	148,0	107,0	187,0	348,0	42,0	8,5
Approx. outer ∅ ca. mm	10,8	10,3	10,8	13,84	22,1	5,38	2,5
Approx. weight kg/km	198	300	176	300	710	60	15

## Electrical characteristics

Impedance (Ohm)	50 ± 2	50 ± 2	75 ± 3	50 ± 2	50 ± 2	50 ± 2	50 ± 2
Frequency range							
f (max) GHz	11	3	3	3	3	3	3
Propagation velocity v/c	0,66	0,66	0,66	0,66	0,66	0,66	0,66
Attenuation at 20 °C (dB/100 m)							
100 MHz	7,0	7,0	7,5	4,8	2,9	17,0	28,0
200 MHz	10,2	10,2	11,0	7,1	4,5	23,0	40,0
500 MHz	17,0	17,0	18,5	12,3	8,1	38,0	68,0
800 MHz	23,0	23,0	24,0	16,8	11,2	50,0	90,0
Approx. capacitance pF/m	101	101	67	101	101	101	95
Rel. velocity of propagation %	67	100	100	100	100	67	70
Insulation resistance MOhm x km min.	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>
Loop resistance max. (Ohm/km)	10,5	10	21	5,5	2,2	36	310
Nominal peak voltage kVs	5,2	5	5	7	11	1,9	1,2
Dielectric strength 50 Hz kVeff	10	10	10	10	15	5	2

RG ... /U = Basetype to MIL-C-17

Continuation ►

– The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

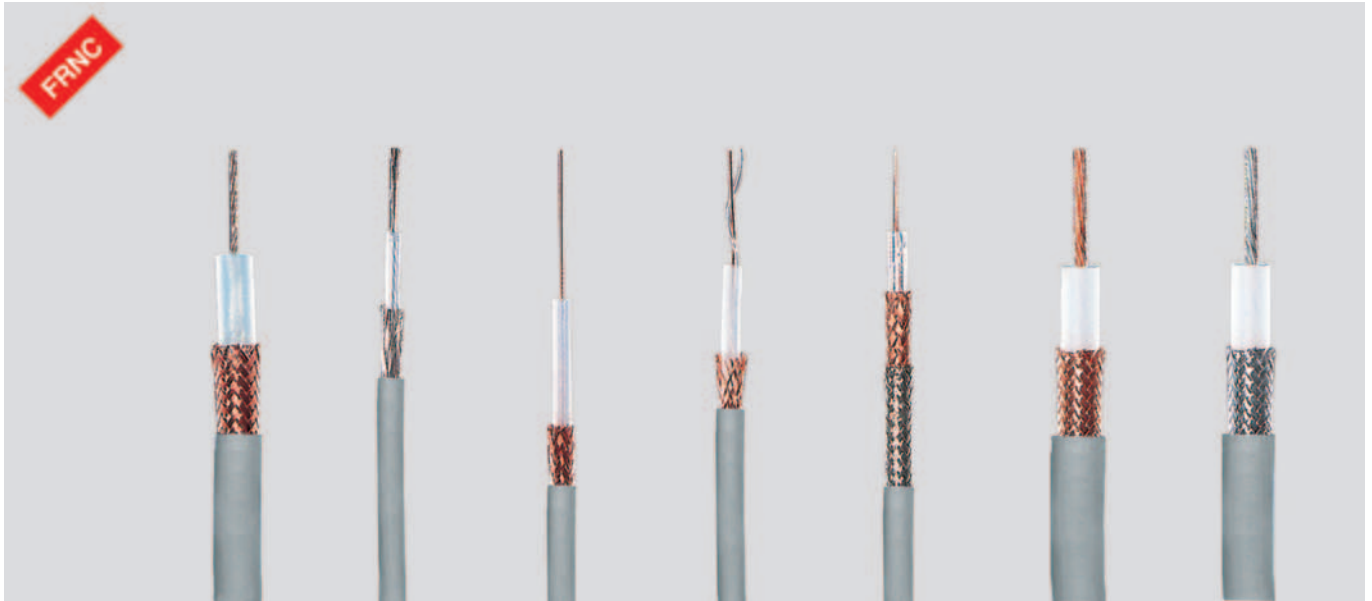
\* Colour outer jacket black or transparent as per production outlet.  
RG-Coaxial types are in accordance with US-Military specifications MIL-C-17  
Further types available on request. Please also note our multi-core versions.

RG/U: R = Radio  
G = Guide  
U = Utility

## Application

Coaxial cables are used in high frequency transmission, especially for transmitters and receivers, computers, radio and TV transmissions. The varied mechanical, thermal and electronic properties of Coaxial cables mean that they can be used up into the GHz levels, as per cable type.

# Halogen-free RG-Coaxial cables



RG-Type-H.../U	11	058	59	62	71	213	214
Part No.	40190	40191	40192	40193	40194	40195	40196
<b>Cable structure</b>							
Inner conductor	Cu-tinned	Cu-tinned	StCu-bare	StCu-bare	StCu-bare	Cu-bare	Cu-silverplated
∅ mm	7x0,4	19x0,18	1x0,6	1x0,65	1x0,65	7x0,75	7x0,75
Insulation	PE	PE	PE	PE-hohl	PE-hohl	PE	PE
∅ mm	7,3	2,95	3,7	3,7	3,7	7,24	7,24
Outer conductor	braiding Cu-bare	braiding Cu-tinned	braiding Cu-bare	braiding Cu-bare	2 braidings 1. Cu-bare 2. Cu-tinned	braiding Cu-bare	2 braidings 2x Cu-silverplated
H-outer jacket*	H	H	H	H	H	H	H
Min. bending radius approx. mm	50	25	30	30	30	50	50
Temperature range °C	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-50 to +70	-35 to +80	-35 to +80
Cu weight kg/km	58,0	21,0	26,0	26,0	48,0	79,0	119,0
Approx. outer ∅ mm	10,3	5,4	6,4	6,4	6,9	10,3	10,8
Approx. weight kg/km	144	38	57	54	64	155	203
<b>Electrical characteristics</b>							
<b>Impedance (Ohm)</b>	<b>75 ± 3</b>	<b>50 ± 2</b>	<b>75 ± 3</b>	<b>93 ± 5</b>	<b>93 ± 3</b>	<b>50 ± 2</b>	<b>50 ± 2</b>
Frequency range f (max) GHz	3	3	3	3	3	3	11
Propagation velocity v/c	0,66	0,66	0,66	0,85	0,85	0,66	0,66
Attenuation at 20°C (dB/100 m)							
3 MHz	1,3	2,9	2,0	2,0	2,0	1,2	1,2
10 MHz	2,4	5,3	3,8	3,7	3,7	2,3	2,3
100 MHz	7,8	17,0	12,2	12,0	12,5	7,5	7,5
200 MHz	11,3	24,4	17,6	17,3	17,3	10,9	10,9
500 MHz	18,7	39,2	27,2	24,7	24,7	17,2	17,2
800 MHz	23,4	47,8	35,2	34,6	34,6	22,6	22,6
Approx. capacitance pF/m	68		68	42,5	42,5	101	101
Rel. velocity of propagation %	67	67	67	43	43	101	101
Insulation resistance MOhm x km min.	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>
Loop resistance max. (Ohm/km)	23	53	171	13	136	10	10,5
Nominal peak voltage kVs	5,0	1,9	2,3	0,75	0,75	5,0	5,0
Dielectric strength 50 Hz kVeff	10	5,0	7,0	3,0	3,0	10	10

RG.../U = Basetype to MIL-C-17  
FRNC = Flame Retardant Non-Corrosive

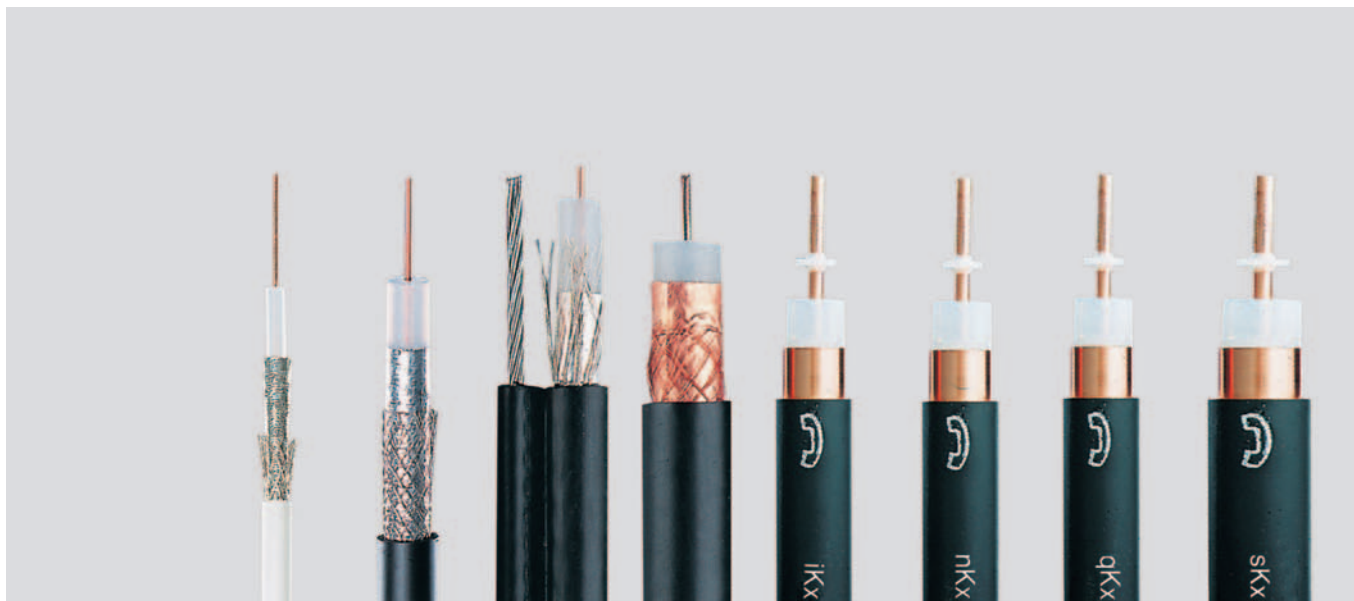
## Application

Coaxial cables are used in high frequency transmission, especially for transmitters and receivers, computers, radio and TV transmissions where no flame propagation under behaviour in fire is permitted. The varied mechanical, thermal and electronic properties of Coaxial cables mean that they can be used up into the GHz levels, as per cable type.

– The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

\* Halogen-free material (HM2).  
RG-Coaxial types are in accordance with US-Military specifications MIL-C-17.  
Further types available on request. Please also note our multi-core versions.

# CATV-Cables with Alu- or Copper foil and braiding



used as	buried cable	outd. span cable	buried cable	buried cable*	buried cable*	buried cable*	buried cable*	
<b>Typ</b>	<b>0,7/4,4 ALG</b>	<b>1,1/7,3 ALG</b>	<b>1,1/7,3 ALG-T</b>	<b>1,8/11,5 FG</b>	<b>A-2YK2Y1 iKx 1,1/7,3</b>	<b>A-2Y0K2Y1 nKx 2,2/8,8</b>	<b>A-2Y0K2Y1 qKx 3,3/13,5</b>	<b>A-2Y0K2Y1 sKx 4,9/19,4</b>
Part no.	40135	40139	40140	40141	40142	40143	40144	40179
<b>Cable structure</b>								
Inner conductor approx. mm	0,7 Cu-bare	1,1 Cu-bare	1,1 Cu-bare	1,8 Cu-bare	1,1 Cu-bare	2,2 Cu-bare	3,3 Cu-bare	4,9 Cu-bare
Insulation $\varnothing$ mm	4,4 PE	7,3 PE	7,3 PE	11,5 PE	7,3 PE	8,8 PEH	13,5 PEH	19,4 PEH
Outer conductor	ALPR-FG	ALPR-FG	ALPR-FG	CuFG	CuR	CuR	CuR	CuR
Sheath	PVC	PE	PE	PE	PE	PE	PE	PE
Colour	white	black	black	black	black	black	black	black
Outer $\varnothing$ approx. mm	6,6	10,5	10,5 x 17,7	15,0	11,0	12,5	17,0	24,5
Bending radius min. Approx. mm	35	100	150	150	160	200	300	400
Strain/suspending wire			5500 N					
Approx. weight kg/km	44	98	177	218	142	183	347	500
<b>Electrical characteristics</b>								
<b>Impedance (Ohm)</b>	<b>75 <math>\pm</math> 2</b>	<b>75 <math>\pm</math> 3</b>	<b>75 <math>\pm</math> 3</b>	<b>75 <math>\pm</math> 3</b>	<b>75 <math>\pm</math> 2</b>	<b>75 <math>\pm</math> 2</b>	<b>75 <math>\pm</math> 1,5</b>	<b>75 <math>\pm</math> 1,5</b>
Capacitance approx. pF/m	67	67	67	67	65	51	51	50
Propagation velocity v/c	0,66	0,66	0,66	0,66	0,66	0,88	0,88	0,89
Attenuation at 20° C (dB/100 m)								
at								
100 MHz	9	5,2	5,2	3,5	5,4	2,8	1,9	1,3
200 MHz	12	7,3	7,3	5,2	7,9	4	2,7	1,9
500 MHz	21,2	12,6	12,6	9	12,9	6,6	4,4	3,1
800 MHz	27,5	16,8	16,8	12	17,3	8,4	5,7	4,1
950 MHz	30,5	18,8	18,8	13	18,9	9,3	6,3	4,4
1350 MHz	37	23	23	-	-	-	-	-
1750 MHz	43	27,7	27,7	-	-	-	-	-
2050 MHz	47,5	30,2	30,2	-	-	-	-	-
Structural return loss min. (dB) between								
30 and 300 MHz	30	32	32	30	26	26	28	28
300 and 600 MHz	30	32	32	30	23	23	25	25
600 and 960 MHz	25	30	30	28	21	21	23	23
960 and 1750 MHz	23	27	27	25	-	-	-	-
<b>Direct-current resistance at 20° C</b>								
Inner conductor max. Ohm/km	47	18,5	18,5	7,3	22	5,6	2,5	1,0
Outer conductor max. Ohm/km	23	11	11	6,5	3,1	3,0	2,0	1,0
<b>Screening efficiency (dB)</b>								
50 and 100 MHz $\geq$	80	80	80	80	110	110	110	110
100 and 500 MHz $\geq$	80	85	85	85	110	110	110	110
500 and 1000 MHz $\geq$	80	85	85	85	110	110	110	110
1000 and 2050 MHz $\geq$	78	78	78	80	110	110	110	110
<b>Post office approved</b>								
	G670009A	G670011A	G622015B	G622010B				
<b>Suitable connectors</b>								
Twist on plug	F6,6TW	-	-	-	F11TW			
Crimpplug	F7C	F11C	F11C	F17C	F11C			
Crimpjack	FK7C	-	-	-	-			
Terminator 75 Ohm	FA75	FA75	FA75	FA75	-			
Handcrimp tool	C7-11	C7-11	C7-11	-	C7-11			

\* Wide-band communication cable for underground installation according to FTZ 15 TV 11 (DBP)

**AL** = Aluminium  
**CuW** = Copperweld  
**PE** = Polyethylene  
**PVC** = Polyvinylchloride

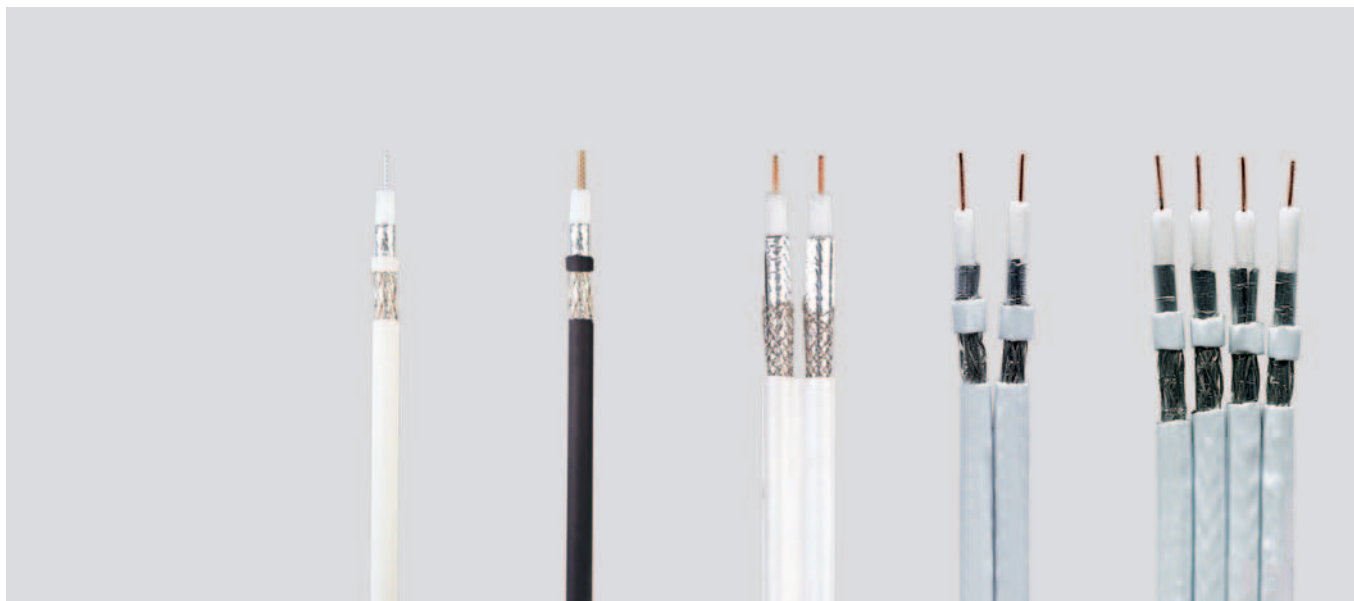
**ALPR** = Polyesterfoil coated with Aluminium on both sides  
**Cu** = Copper  
**F** = Foil

**PEH** = Polyethylene air-space insulation  
**G** = Braid  
**BK-cable** = bandwidth communication cable

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

# SAT-Coaxial Cables up to 2150 MHz

## for Satellite-Receivers, double screened



Type	1,1/5,0 ALG	1,65/7,2 ALG	SAT-MINI 1	DUO 2 x 0,7/2,9	QUADRO 4 x 0,7/2,9
Part No.	40150	40151	40159	40168	40169
<b>Cable structure</b>			<b>2 x 0,8/3,5</b>		
Inner conductor approx. mm	1,1 Cu-tinned	1,65 Cu-bare	0,8 Cu-bare	0,65 Cu-bare	0,65 Cu-bare
Insulation $\varnothing$ mm	5,0 cell-PE	7,2 cell-PE	3,5 cell-PE	3,0 cell-PE	3,0 cell-PE
Colours	–	–	–	–	–
Outer conductor: coated Alu-Foil + braiding	ALPR-FG	ALPR-FG	ALPR-FG	ALPR-FG	ALPR-FG
Sheath	PVC	PE	PVC	PVC	PVC
Colour	white	black	white	white	white
Outer $\varnothing$ approx. mm	6,6	10,1	5,4 x 10,8	8,6 x 4,3	20 x 4,3
Bending radius approx. mm	40	60	40	35	80
Approx. weight kg/km	49	81	62	40	82

### Electrical characteristics

Impedance (Ohm)	75 $\pm$ 3	75 $\pm$ 3	75 $\pm$ 3	75 $\pm$ 3	75 $\pm$ 3
Capacitance approx. pF/m	55	55	55	55	55
Propagation velocity v/c	0,82	0,82	0,82	0,82	0,82
Attenuation at 20° C (dB/100 m)					
at 100 MHz	5,0	3,7	8,0	8,9	8,9
200 MHz	7,3	5,1	11,5	13,5	13,5
500 MHz	13	9	18,5	22	22
800 MHz	17,2	11,8	23,5	28	28
950 MHz	19,5	13,6	25,5	31,5	31,5
1350 MHz	23,5	16,8	31	37	37
1750 MHz	27,6	19,7	35,5	42,3	42,3
2050 MHz	30	22	39,5	45,9	45,9
2150 MHz	31	22,5	43	50,4	50,4
Structural return loss min. (dB)					
between 30 and 300 MHz	28	31	27	20	20
300 and 600 MHz	28	30	25	17	18
600 and 960 MHz	26	30	20	17	15
960 and 2050 MHz	24	28	20	–	–

### Direct-current resistance at 20° C

Inner conductor max. Ohm/km	18	9	36	52	52
Outer conductor max. Ohm/km	20	12	28	22	26
Max. nominal voltage (V)	–	–	–	–	–

### Screening efficiency (dB)

50 and 100 MHz $\geq$	80	80	78	75	75
100 and 500 MHz $\geq$	80	85	78	75	75
500 and 1000 MHz $\geq$	80	85	75	75	75
1000 and 2050 MHz $\geq$	78	78	75	75	75

### Post office approved

	G670010A	G622016B			
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### Suitable connectors

Twist on plug	F7TW	–	F58TW	–	F58TW
Crimplplug	F7C	F11C	–	–	–

– The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

**AL** = Aluminium  
**CuW** = Copperweld  
**PE** = Polyethylene

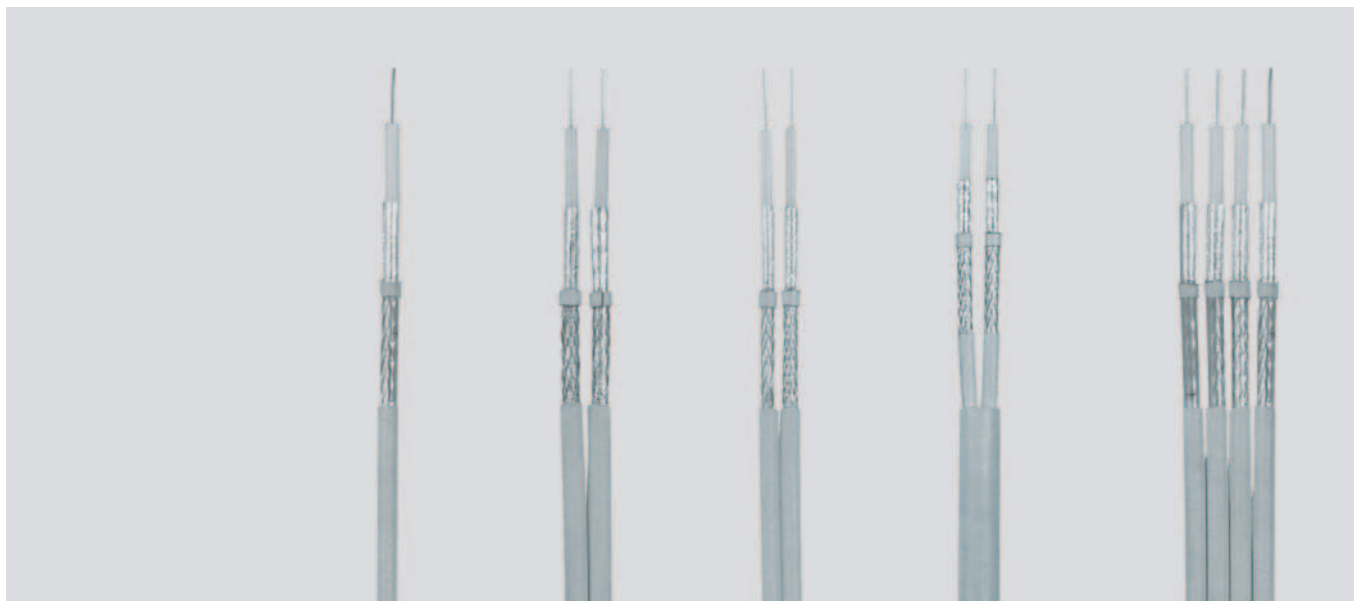
**PVC** = Polyvinylchloride  
**ALPR** = Polyesterfoil coated with Aluminium on both sides

**Cu** = Copper  
**F** = Foil  
**PEH** = Polyethylene air-space insulation

**G** = Braid  
**vz** = tinned

# SAT-Coaxial cables up to 3000 MHz

## for Satellite-Receivers, double screened

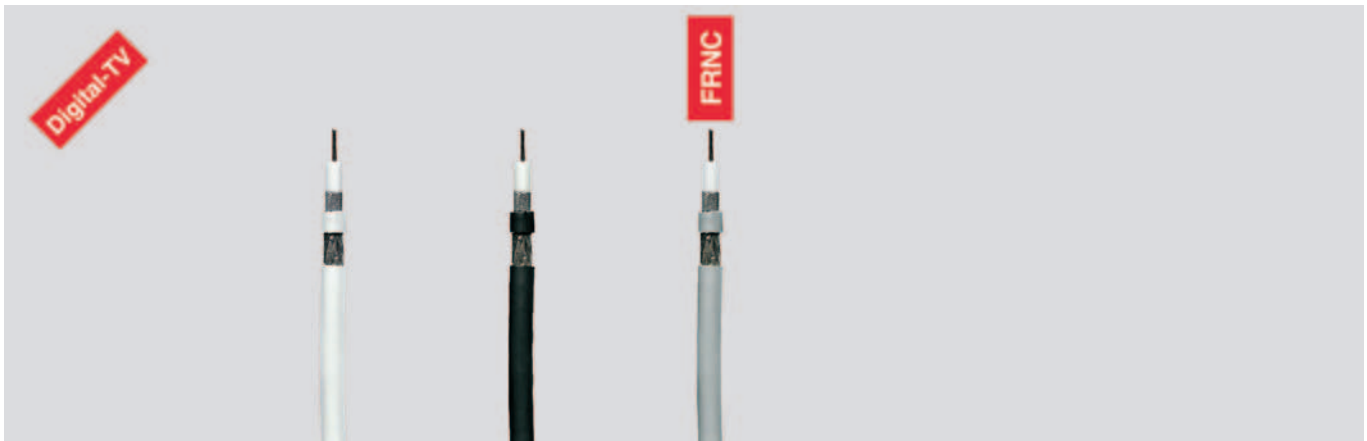


Type	SAT 3000	2-SAT 3000 midi	2-SAT 3000 mini	2-SAT 3000 mini round	4-SAT 3000
Part No.	40124	40125	40126	40127	40128
<b>Cable structure</b>					
Inner conductor approx. mm	1,13	0,8	0,65	0,65	0,8
Insulation $\varnothing$ mm	4,9	3,7	3,0	3,0	3,7
Outer conductor $\varnothing$ mm	5,6 Al-wire	4,5 Al-wire	3,6 Al-wire	3,6 Al-wire	4,4 Al-wire
Sheath	PVC	PVC	PVC	PVC	PVC
Wrapping $\varnothing$ m	–	–	3,7	9,1	4,5
Outer $\varnothing$ approx. mm	6,8	11,6 x 5,3	10,0 x 4,7	10,0	22,0 x 5,3
Bending radius min. approx. mm	70	55	50	100	55
Approx. weight kg/km	41	48	44	74	99
Number coax cable	1	2	2	2	4
<b>Electrical characteristics</b>					
<b>Impedance (Ohm)</b>	<b>75 <math>\pm</math> 3</b>	<b>75 <math>\pm</math> 3</b>	<b>75 <math>\pm</math> 4</b>	<b>75 <math>\pm</math> 4</b>	<b>75 <math>\pm</math> 3</b>
Capacitance approx. pF/m	56	55	55	55	55
Propagation velocity v/c	0,81	0,8	0,8	0,8	0,8
Attenuation at 20°C (dB/100 m)					
At 950 MHz	18,3	26,3	30,4	30,4	26,3
1750 MHz	25,7	37,1	42,5	42,5	37,1
2050 MHz	28,1	40,1	46,0	46,0	40,1
2400 MHz	30,7	43,4	49,7	49,7	43,4
3000 MHz	34,8	47,4	55,1	55,1	47,4
Structural return loss min. (dB)					
between 5 – 30 MHz	23	20	20	20	20
30 – 470 MHz	23	20	20	20	20
470 – 862 MHz	20	18	18	18	18
862 – 2150 MHz	18	16	16	16	16
<b>Direct-current resistance at 20°C</b>					
Inner conductor max. Ohm/km	18	36	52	52	36
Outer conductor max. Ohm/km	33	45	26	26	45
Max. nominal voltage (V)	–	–	–	–	–
<b>Screening efficiency (dB)</b>					
50 and 1000 MHz $\geq$	> 75	> 75	> 75	> 75	> 75
1000 and 2000 MHz $\geq$	> 70	> 70	> 70	> 70	> 70
<b>Mechanical characteristics</b>					
Caloric load values (KWh · m)	0,24	0,3	0,16	0,27	0,6
Max. tensile stress to 20°C (N)	135	220	90	90	440

– The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

# Multimedia-Coaxial Cables SAT 1,0/4,6 GH up to 2400 MHz

for Digital-TV, double screened, screening efficiency > 90 dB



Type	1,0/4,6 GH-Y	1,0/4,6 GH-2Y	1,0/4,6 GH-FRNC
<b>For laying in</b>	<b>Indoor and openair</b>	<b>Underground</b>	<b>Safely areas</b>
Part No.	40176	40177	40178
<b>Cable structure</b>			
Inner conductor approx. mm	1,0 Cu with Skin	1,0 Cu with Skin	1,0 Cu with Skin
Insulation Ø mm	4,6 PEE with Skin and PIB-coated	4,6 PEE with Skin and PIB-coated	4,6 PEE with Skin and PIB-coated
Outer conductor	ALPR-FG tinned	ALPR-FG tinned	ALPR-FG tinned
Sheath	PVC	PE	FRNC
Colour	white	black	grey
Outer Ø approx mm	6,6	6,6	6,6
Bending radius mm	45	45	45
Weight kg/km	45	45	40
<b>Electrical characteristic</b>			
<b>Impedance (Ohm)</b>	<b>75 ± 1,5</b>	<b>75 ± 1,5</b>	<b>75 ± 1,5</b>
Capacitance approx. pF/m	55	55	55
Propagation velocity v/c	0,85	0,85	0,85
Attenuation 20° C (dB/100 m)			
at			
100 MHz	5,8	5,8	5,8
200 MHz	7,8	7,8	7,8
450 MHz	12,5	12,5	12,5
600 MHz	14,7	14,7	14,7
800 MHz	17,2	17,2	17,2
1000 MHz	19,1	19,1	19,1
1750 MHz	26,2	26,2	26,2
2050 MHz	28,5	28,5	28,5
2400 MHz	31,3	31,3	31,3
Structural return loss (dB)			
between			
30 – 300 MHz	30	30	30
300 – 600 MHz	32	32	32
600 – 960 MHz	31	31	31
960 – 1750 MHz	26	26	26
1750 – 2400 MHz	30	30	30
<b>Direct-current resistance 20° C</b>			
Inner conductor Ohm/km	18	18	18
Outer conductor Ohm/km	20	20	20
Max. nominal voltage (V)	–	–	–
<b>Screening efficiency (dB)</b>	<b>&gt; 90</b>	<b>&gt; 90</b>	<b>&gt; 90</b>

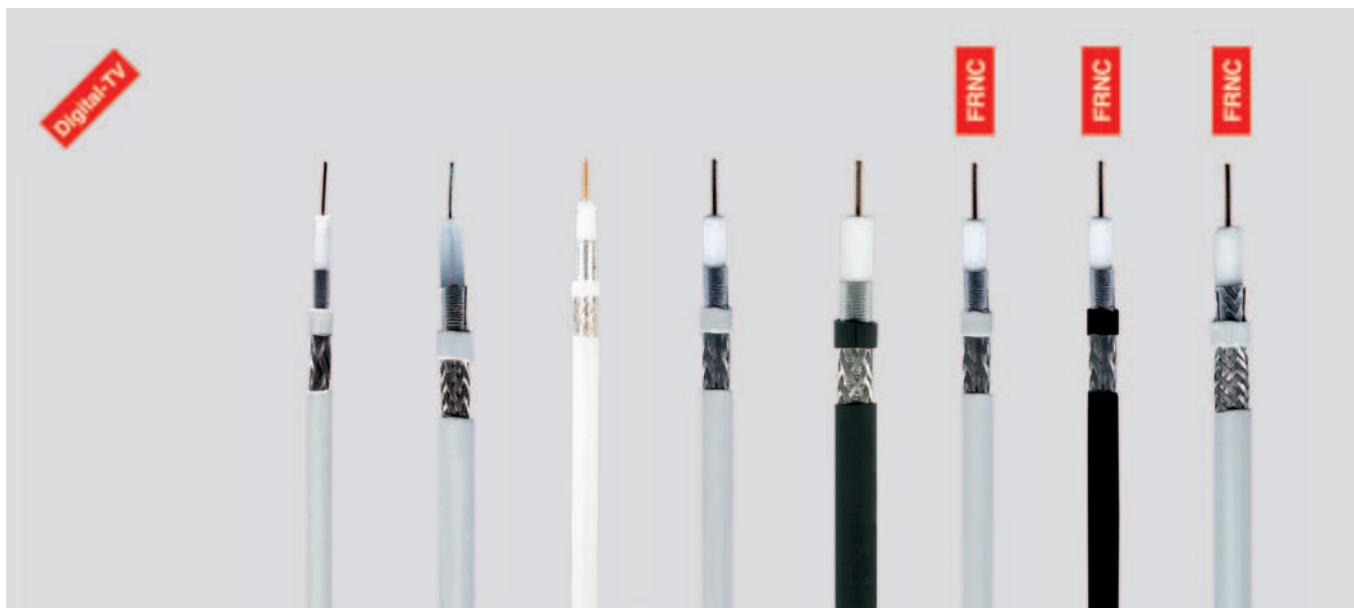
– The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

FRNC = Flame Retardant Non-Corrosive  
 PEE = Cell-Polyethylene  
 PIB = Polyisobutyltene  
 ALPR = Polyesterfoil coated with Aluminium on both sides  
 F = Foil  
 G = Braid  
 GH = Braid-covering ca. 88%

## Application and Characteristics

- A new special coaxial cable is justified for **Multimedia-era**. This cable is designed due to new modification and manufacturing technology for all requirements of signal transmission.
- **Copper inner-conductor 1,02 with skin-effect**
  - Protection against humidity and corrosion
  - Solid compound of dielectric. No change of position during installation in narrow bending radius.
- **Dielectric 4,6 mm Ø: – special PE-compound, foaming by GAS-INJEKTION**
  - Important improvement of propagation velocity values
  - Very high transmission speed of individual signals (presumption for Multimedia)
  - Improvement for the resistance to ageing
  - Reduction of attenuation-loss
- **The over surface of dielectric consists too a skin-coating (smooth over surface)**
  - Protection against humidity and other chemical influences
  - Minimum impedance tolerance ± 2 Ohm
  - This coaxial cable is crimpable
  - Installation in narrow bending radius, no kinking risk
  - The transmission-loss of signals are hardly measurable to the advance in years
  - Additionally to the skin-effect, the dielectric contains a gel-coating (special PIB-compound)
  - We therefore offer a **15 years guarantee for attenuation-loss** by installation at 20° C room-temperature
- **Screening**
  - AL/PR-foil, polyesterfoil coated with aluminium on both sides
  - Copper braiding of tinned wires, **screening efficiency > 90 dB**
- **Outer sheath**
  - Alternatives
    - PVC white for indoor and outdoor installation
    - PE black for underground laying
    - FRNC grey as a safety coaxial cable in hospitals, airports, and for medical equipment etc. (other sheath colours on request)

# SAT-Coaxial cables for Digital-TV, screening efficiency > 90 dB for Satellite-Receiver, double screened



For laying in	indoor outdoor	indoor outdoor	indoor outdoor	indoor outdoor	underground	indoor outdoor	indoor outdoor	indoor outdoor
<b>Type</b>	<b>0,7/2,9</b>	<b>0,7/4,5</b>	<b>0,8/3,5</b>	<b>1,3/5,0</b>	<b>1,6/7,0</b>	<b>1,13/5,0 FRNC</b>	<b>1,13/5,0 FRNC</b>	<b>1,6/7,0 FRNC</b>
Part No.	40015	40016	40085	40017	40018	40019	40021	40020
<b>Cable structure</b>								
Inner conductor approx. mm	0,65 Cu	0,75 Cu tinned	0,8 Cu	1,13 Cu	1,63 Cu	1,13 Cu	1,13 Cu	1,63 Cu
Insulation Ø mm	3,0 PEG	4,5 PEG	3,5 PEG	4,8 PEG	7,1 PEG	4,8 PEG cell-PE	4,8 PEG cell-PE	7,1 PEG
Outer conductor	ALPR-FG	ALPR-FG	ALPR-FG	ALPR-FG	ALPR-FG	ALPR-FG	ALPR-FG	ALPR-FG
1. Screen – ALPR	Foil	Foil	Foil	Foil	Foil	Foil	Foil	Foil
2. Screen – Cu-Braid	Braid	Braid	Braid	Braid	Braid	Braid	Braid	Braid
Sheath	PVC	PVC	PVC	PVC	PE	FRNC-H	FRNC-H	FRNC-H
Colour	white	white	white	white	black	white	black	white
Outer Ø approx. mm	4,3	6,6	5,0	6,8	4,3	6,8	6,8	10,0
Bending radius min. approx. mm	43	35	5,0	45	60	48	48	60
Approx. weight kg/km	20	40	32	47	110	47	47	110
<b>Electrical characteristics</b>								
<b>Impedance (Ohm)</b>	<b>75 ± 3</b>	<b>75 ± 3</b>	<b>75 ± 3</b>	<b>75 ± 1,5</b>	<b>75 ± 1,5</b>	<b>75 ± 2</b>	<b>75 ± 2</b>	<b>75 ± 2</b>
Capacitance approx. pF/m	55	67	53	53	53	53	53	53
Propagation velocity v/c	0,8	0,66	0,8	0,85	0,85	0,85	0,85	0,85
Attenuation at 20°C (dB/100 m)								
at 100 MHz	8,9	7,1	6,2	4,7	3,8	4,7	4,7	3,8
200 MHz	13,5	10,4	11,2	7	5,5	7	7	5,5
450 MHz	21	16,8	17,6	11,5	8,6	11,5	11,5	8,6
862 MHz	29	25	24,3	17	12,1	17	17	12,1
1000 MHz	31,9	27,4	26,4	18,1	13,2	18,1	18,1	13,2
1750 MHz	42,3	37,4	30,3	2,5	17,5	25	25	17,5
2050 MHz	45,9	40,5	34,6	27,3	19	27,3	27,3	19
2250 MHz	50,4	44,3	38,4	28	19,9	28	28	19,9
2400 MHz	55,5	45	–	29,3	22,5	29,3	29,3	22,5
Structural return loss min. (dB)								
between 30 and 300 MHz	20	20	20	25	25	25	25	25
300 and 600 MHz	18	18	18	18	18	18	18	18
600 and 960 MHz	16	18	16	17	17	17	17	17
960 and 1750 MHz	–	–	16	15	15	15	15	15
<b>Direct-current resistance at 20°C</b>								
Inner conductor max. Ohm/km	52	52	36	18	9	18	18	9
Outer conductor max. Ohm/km	26	22	28	14	21	14	14	21
max. nominal voltage (V)	–	–	–	–	–	–	–	–
<b>Screening efficiency (dB)</b>								
50 and 100 MHz ≥	> 90	> 90	> 90	> 90	> 90	> 90	> 90	> 90
100 and 500 MHz ≥	> 90	> 90	> 90	> 90	> 90	> 90	> 90	> 90
500 and 1000 MHz ≥	> 90	> 90	> 90	> 90	> 90	> 90	> 90	> 90
1000 and 2050 MHz ≥	> 90	> 90	> 90	> 90	> 90	> 90	> 90	> 90

– The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

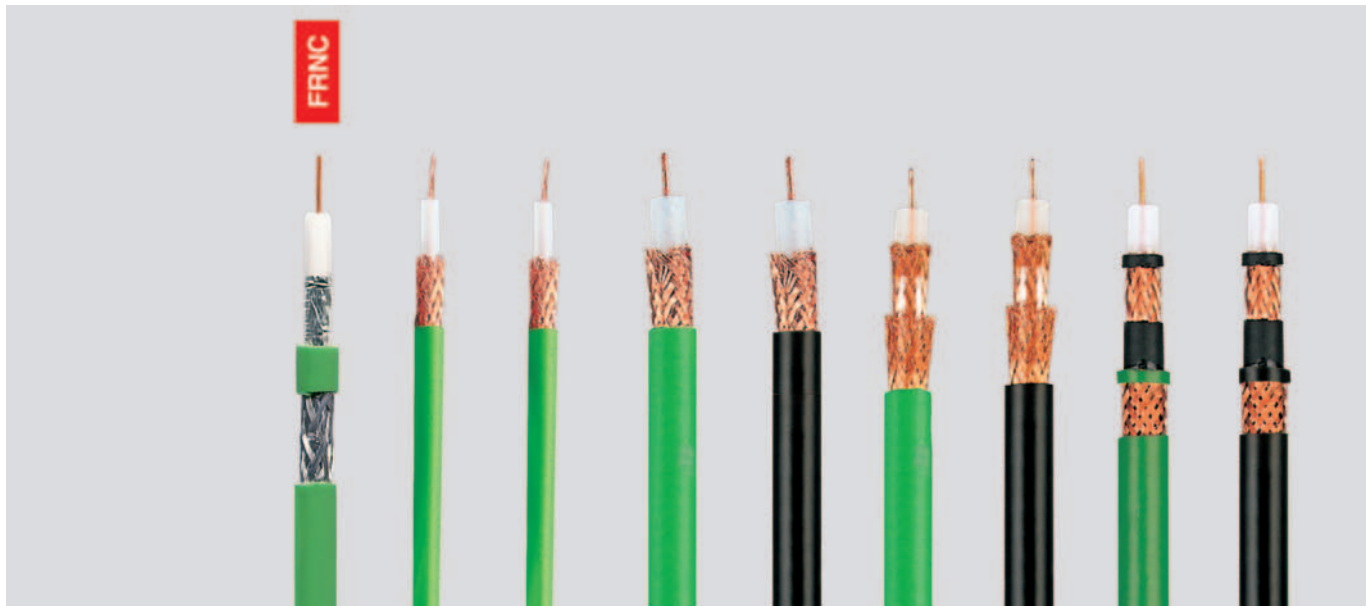
FRNC = Flame Retardant Non-Corrosive

AL = Aluminium  
 PEE = cell-PE  
 PE = Polyethylene  
 PIB = Polyisobutylene  
 PVC = Polyvinylchloride  
 ALPR = Polyesterfoil coated with Aluminium on both sides  
 FRNC = Fire resistant non-corrosive

Cu = Copper  
 F = Foil  
 PEH = Polyethylene air-space insulation

CuR = Cu-tube welded  
 G = Braid  
 VZ = tinned  
 PEG = Physical foamed

# Video Cables



Type	0,6/2,8	0,6L/3,7	0,6/3,7	1,0/6,6	1,0/6,6	1,0/6,6D	1,0/6,6D	1,0/6,6 2YD	1,0/6,6 2YD
For laying in	indoor	indoor	indoor	indoor	indoor underground	indoor	indoor underground	indoor	indoor underground
Part No.	40022	40170	40171	40173	40056	40174	40073	40175	40105
<b>Cable structure</b>									
Inner conductor	Cubl	Cubl	Cubl	Cubl	Cubl	Cubl	Cubl	Cubl	Cubl
∅ mm	0,6	7 x 0,20	0,60	1,0	1,0	1,0	1,0	1,0	1,0
Insulation ∅ mm	2,8	3,7 PE	3,7 PE	6,4 PE	6,4 PE	6,4 PE	6,4 PE	6,4 PE	6,4 PE
1. outer conductor	ALPR	CuGbl	CuGbl	CuGbl	CuGbl	CuGbl	CuGbl	CuGbl	CuGbl
∅ ca. mm		4,2	4,3	7,0	7,0	7,0	7,0	7,0	7,0
inner sheath/foil	–	–	–	–	–	foil	foil	PE	PE
∅ mm	–	–	–	–	–	–	–	8,5	8,5
2. outer conductor	CuGverz	–	–	–	–	CuGbl	CuGbl	CuGbl	CuGbl
∅ ca. mm	–	–	–	–	–	7,6	7,6	9,1	9,1
Sheath	FRNC	PVC	PVC	PVC	PE	PVC	PE	PVC	PE
Colour	green	green	green	green	black	green	black	green	black
Outer ∅ approx. mm	4,3	6,1	6,1	8,8	8,8	9,0	9,0	11,0	11,0
Bending radius min. approx. mm	25	30	30	45	45	50	50	55	55
Approx. weight kg/km	24	48	48	95	93	128	125	151	148
<b>Electrical characteristics</b>									
Impedance (Ohm)	75 ± 2	75 ± 1%	75 ± 1%	75 ± 1%	75 ± 1%	75 ± 1%	75 ± 1%	75 ± 1%	75 ± 1%
Attenuation at 20° C (dB/100 m)	0,9								
at 1 MHz		1,2	1,1	0,6	0,6	0,6	0,6	0,6	0,6
5 MHz	2,2	2,6	2,5	1,3	1,3	1,4	1,4	1,4	1,4
7 MHz	2,6	–	–	–	–	–	–	–	–
10 MHz	3,2	3,6	3,5	2,0	2,0	2,0	2,0	2,0	2,0
50 MHz	7,5	–	–	–	–	–	–	–	–
100 MHz	10,2	–	–	–	–	–	–	–	–
Propagation velocity v/c	0,80	0,66	0,66	0,66	0,66	0,66	0,66	0,66	0,66
<b>Direct-current resistance at 20° C</b>									
Inner conductor max. Ohm/km	63	83	63	22	22	24	24	24	24
Outer conductor max. Ohm/km	21	12,5	13	7,5	7,5	3,5	3,5	7/6,5	7/6,5
Capacitance approx. pF/m	54	67	67	67	67	67	67	67	67
Test voltage	3,5	4,2	4,2	7,0	7,0	7,0	7,0	7,0	7,0
<b>Working voltage at (kV)</b>									
Pulse operation	–	3,6	3,6	6,0	6,0	6,0	6,0	6,0	6,0
HF-operation (peak value)	–	1,8	1,8	3,0	3,0	3,0	3,0	3,0	3,0
DC operation	–	8,0	8,0	14,0	14,0	14,0	14,0	14,0	14,0
Screening efficiency (dB) 50 and 900 MHz	≥90	–	–	–	–	–	–	–	–
Cu weight kg/km	11,0	18,0	17,0	32,0	32,0	78,0	78,0	78,0	78,0

– The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

**Cu** = Copper  
**PVC** = Polyvinylchloride  
**FRNC** = Flame Retardant Non-Corrosive

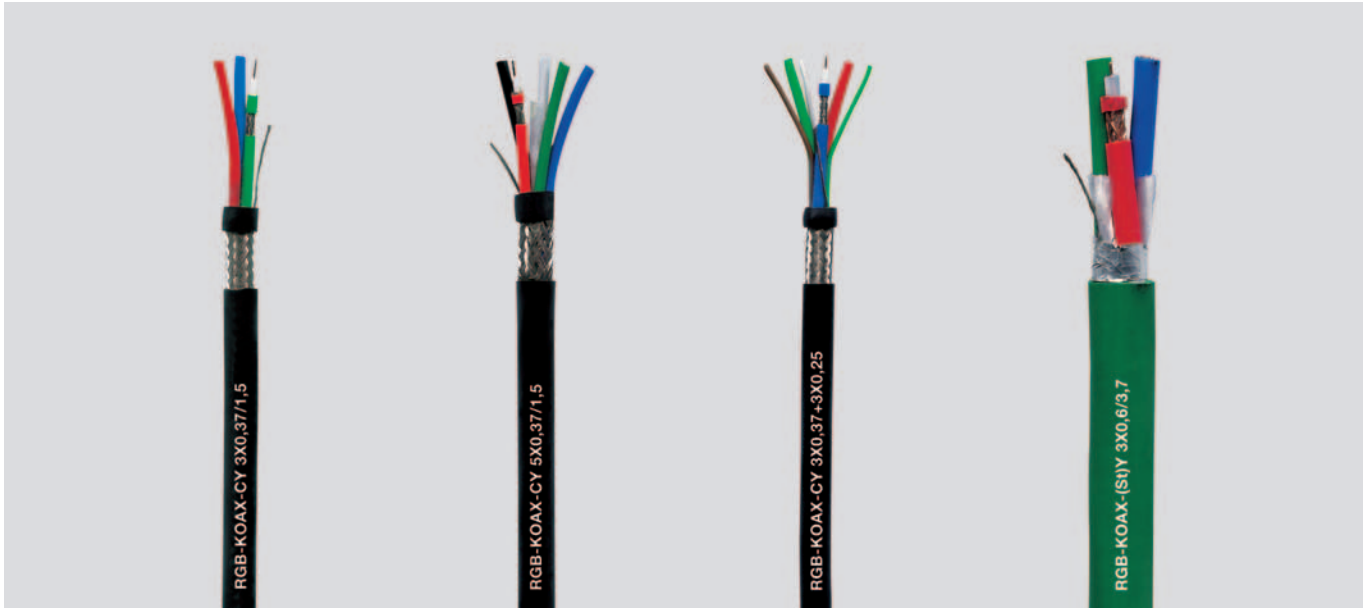
**G** = Braid  
**gn** = Green  
**PEE** = Cell-PE

**PE** = Polyethylene  
**bl** = Bare

**D** = 2x braiding  
**bk** = Black

# RGB-COAX-CY RGB-COAX-(St)Y

## Transmission cables for colour monitor



### Technical data

- Base cable **0,37/1,5; 0,6/3,7**
- Temperature range
  - fixed installation -10°C to +80°C
  - flexing -5°C to +50°C
- Mutual capacitance 67 nF/km
- Impedance 75 Ohm
- Attenuation (dB/100 m)
 

RGB-Coax	0,37/1,5	0,6/3,7
1 MHz	2,0	1,1
2 MHz	2,8	1,5
5 MHz	4,0	2,5
10 MHz	5,8	3,5
20 MHz	8,4	4,5
50 MHz	13,9	7,2
100 MHz	19,8	10,4
200 MHz	28,5	15,1
- Minimum bending radius  
15x cable Ø

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

### Cable structure

#### RGB-KOAX-CY ... x0,37/1,5

- Inner conductor bare copper, solid, conductor Ø 0,37 mm
- Dielectric (insulation) of cell-Polyethylene
- Outer conductor of tinned copper wire braiding
- PVC-jacket in colour  
red, green, blue for 3xRGB COAX  
red, green, blue, white, black for 5xRGB COAX
- 3 or 5 Coax twisted with optimal lay-length
- Foil taping
- Overall braid-screening, tinned copper with optimal surface coverage and drain-wire
- PVC-outer jacket, black

#### RGB-KOAX-CY 3x0,37/1,5 + 3x0,25

Cable structure as per above, but with additional control cores (3x0,25) in the interstices, colour brown, green, white

### Application

RGB cables are suitable for the transmission of both analogue and digital video signals. They are used particularly as connecting cables for data systems, engineering applications (CAD, high-definition graphics) and in television studios. The three main signals (red, green, blue) are transmitted separately. Depending on the application, it is possible to supply the base cable with further coaxial cables or with symmetrical signal cores for the intensity and horizontal or vertical synchronisation.

### Cable structure

#### RGB-KOAX-(St)Y ... x0,6/3,7

- Inner conductor, bare copper, solid, conductor Ø 0,6 mm
- Dielectric (insulation) of cell-Polyethylene
- Outer conductor of tinned or bare copper wire braiding
- PVC-jacket in colour  
red, green, blue for 3xRGB  
red, green, blue, white, black for 5xRGB
- 3 or 5 COAX twisted with optimal lay-length
- Foil taping
- Plastic coated aluminium foil and drain wire
- PVC-outer jacket, green or black

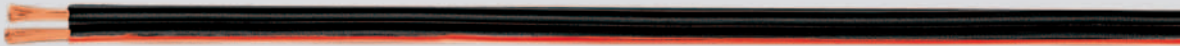
### RG-COAX-CY ... 0,37/1,5

Part-No.	No RGB-Coax n x mm	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
40145	3 x 0,37/1,5	7,2	23	59
40146	5 x 0,37/1,5	9,0	36	89
40147	3 x 0,37/1,5 + 3 x 0,25	8,2	39	89

### RG-COAX-(St)Y ... 0,6/3,7

Part-No.	No RGB-Coax n x mm	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
40148	3 x 0,6/3,7	16	23	278
40149	5 x 0,6/3,7	19	102	397

# Loudspeaker Cables



Cross section (mm <sup>2</sup> )	<b>2 x 0,5</b>	<b>2 x 0,5</b>	<b>2 x 0,75</b>	<b>2 x 0,75</b>	<b>2 x 1,5</b>	<b>2 x 1,5</b>	<b>2 x 2,5</b>	<b>2 x 2,5</b>	<b>2 x 4,0</b>	<b>2 x 4,0</b>
Part No.	40180	40023	40181	40024	40182	40025	40183	40026	40184	40027

## Cable structure

**Conductor: bare copper strands**

**Identification: 1 core smooth, 1 core corrugated**

Construction ∅ mm	16 x 0,20	16 x 0,20	24 x 0,20	24 x 0,20	28 x 0,25	28 x 0,25	48 x 0,25	48 x 0,25	55 x 0,30	55 x 0,30
Insulation approx. mm	2,1 x 4,7	2,1 x 4,7	2,2 x 4,9	2,2 x 4,9	2,6 x 5,5	2,6 x 5,5	3,3 x 7,0	3,3 x 7,0	4,3 x 8,2	4,3 x 8,2
Colour PVC-sheath <sup>1)</sup>	transparent	red/black	transparent	red/black	transparent	red/black	transparent	red/black	transparent	red/black
Approx. weight kg/km	15	15	20	20	37	37	63	63	80	80

## Electrical characteristics

Loop-resistance max. mOhm/m	70	70	47	47	23	23	14	14	9	9
Capacitance approx. pF/m	47	47	60	60	67	67	67	67	64	64
Inductance μH/m										
at 1 kHz	0,67	0,67	0,61	0,61	0,54	0,54	0,54	0,54	0,58	0,58
10 kHz	0,79	0,79	0,73	0,73	0,59	0,59	0,62	0,62	0,65	0,65
100 kHz	0,85	0,85	0,73	0,73	0,59	0,59	0,62	0,62	0,65	0,65
1000 kHz	0,80	0,80	0,67	0,67	0,52	0,52	0,56	0,56	0,59	0,59
Cu weight kg/km	10	10	15	15	29	29	48	48	78	78

Cross section (mm <sup>2</sup> )	<b>2 x 1,5</b>	<b>2 x 2,5</b>	<b>2 x 4,0</b>	<b>2 x 6,0</b>	<b>2 x 10,0</b>
Part no.	40185	40186	40187	40188	40189

## Cable structure

**Conductor: high flexible Cu-strand, bare**

**Identification: 1 single core transparent jacket with red stripe**

Construction ∅ mm	189 x 0,10	322 x 0,10	511 x 0,10	777 x 0,10	1273 x 0,10
Insulation approx. mm	3,1 x 6,5	3,6 x 7,5	5,0 x 10,2	6,1 x 12,5	7,0 x 15,0
Colour PVC-sheath <sup>1)</sup> (soft PVC)	transparent	transparent	transparent	transparent	transparent
Approx. weight kg/km	41	60	79	136	254

## Electrical characteristics

Loop-resistance max. mOhm/m	23	14	9	6	3,5
Capacitance approx. pF/m	67	53	50	54	59
Inductance μH/m					
at 1 kHz	0,54	0,48	0,49	0,46	0,45
10 kHz	0,61	0,55	0,56	0,54	0,53
100 kHz	0,62	0,59	0,60	0,56	0,56
1000 kHz	0,55	0,54	0,56	0,53	0,52
Cu weight kg/km	29,0	48,0	77,0	115,0	192,0

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

<sup>1)</sup> Further colours on request.

PVC cables will be changed to lead free PVC successively.

# LIFDY Miniature-Microphone- and Control-Cable with copper screen



## Technical data

- Special-PVC miniature control cable
- **Temperature range**  
-40°C to +105°C
- **Nominal voltage** 100 V
- **Test voltage** 300 V
- **Bending radius** approx. 10x cable  $\varnothing$
- **Radiation resistance**  
to  $80 \times 10^6$  cJ/kg (to 80 Mrad)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Cable structure

- Bare copper conductors, extra fine wire stranded
- Copper stranding high flexible  
51 x 0,05 mm
- PVC insulated
- Cores laid up
- Cores colour coded to DIN 47100
- Copper braid, helically wound plain copper wire,  
optical coverage approx. 95%
- PVC-outer jacket black
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/EN 50265-2-1/IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

## Application

For use as a data cable in control circuits for interference free transmission of data signals and for alarm circuits. The cables are suitable specially for use as microphone cables in studios. The higher per cent covering of the copper screening offers interference free signal transfer.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer $\varnothing$ ca. mm	Cop. weight kg / km	Weight ca. kg / km
15915	2 x 0,1	3,6	7,8	20
15916	3 x 0,1	3,7	9,2	30
15917	4 x 0,1	4,0	11,0	30
15918	5 x 0,1	4,3	13,6	40
15919	7 x 0,1	4,6	15,2	40

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer $\varnothing$ ca. mm	Cop. weight kg / km	Weight ca. kg / km
15920	8 x 0,1	4,9	17,0	50
15921	12 x 0,1	5,7	22,2	50
15922	16 x 0,1	6,3	26,8	60
15923	24 x 0,1	8,2	34,0	90
15924	32 x 0,1	10,0	41,4	110

PVC cables will be changed to lead free PVC successively.

