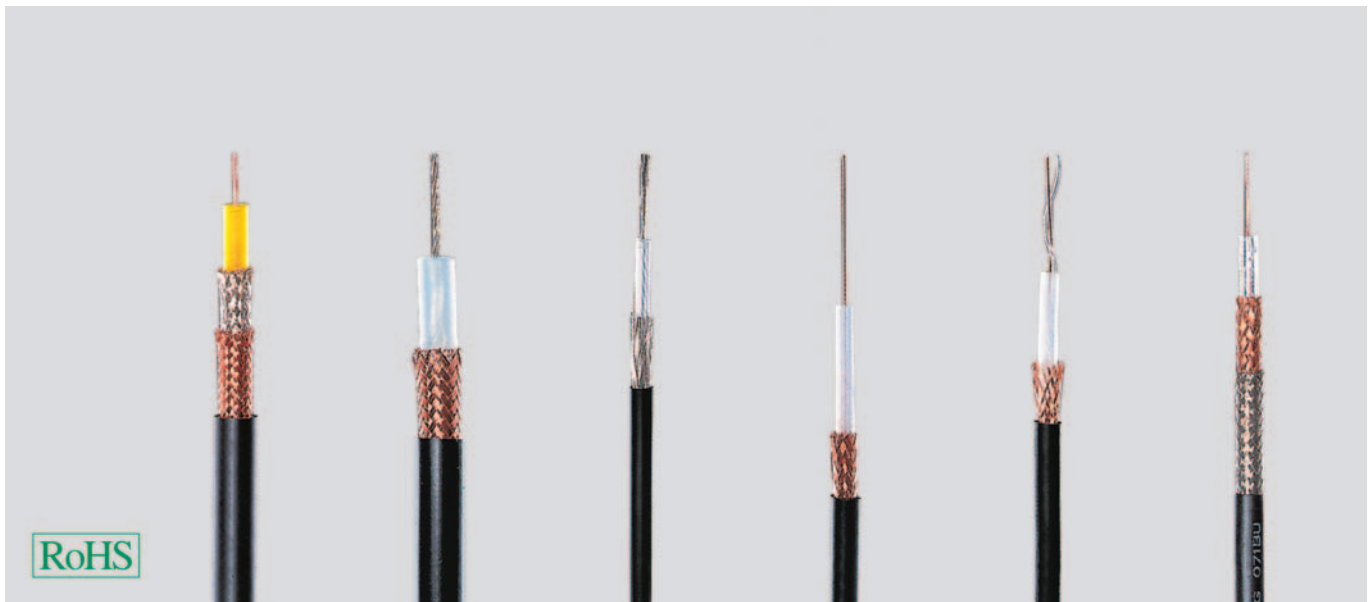


RG-Coaxial Cables



Type	RG 6 A/U	RG 11 A/U	RG 58 C/U	RG 59 B/U	RG 62 A/U	RG 71 B/U
Part no.	40001	40002	40003	40004	40005	40006
Cable structure						
Inner conductor diameter mm	1 x 0,7	7 x 0,4	19 x 0,2	1 x 0,6	1 x 0,6	1 x 0,6
	Steel/copper, bare	Tinned copper	Tinned copper	Steel/copper, bare	Steel/copper, bare	Steel/copper, bare
Insulation Ø mm	4,7 PE	7,3 PE	2,95 PE	3,7 PE	3,7 PE, hollow	3,7 PE, hollow
Outer conductor	2 braids Silvered copper Copper, bare	Braid Copper, bare	Braid Tinned copper	Braid Copper, bare	Braid Copper, bare	2 braids Copper, bare Tinned copper
Outer sheath	PVC	PVC	PVC	PVC	PVC	PVC
Min. bending radius approx. mm	40	50	25	30	30	30
Temperature range °C	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-50 to +70
Copper weight kg/km	72,0	58,0	29,0	28,0	28,0	48,0
Outer Ø approx. mm	8,4	10,3	5,0	6,2	6,2	6,2
Weight approx. kg / km	115	140	38	57	52	62
Electrical characteristics						
Impedance (Ohm)	75 ± 3	75 ± 3	50 ± 2	75 ± 3	93 ± 5	93 ± 3
Frequency range						
f (max.) GHz	3	3	3	3	3	3
Propagation velocity v/c	0,7	0,7	0,7	0,7	0,8	0,8
Attenuation at 20°C (db/100m)						
100 MHz	8,8	7,5	17	11,5	10,5	10,5
200 MHz	13,5	11	24	16,5	15	15
500 MHz	21	18,5	39	27	24,5	24,5
800 MHz	27,5	24	51	35	32,5	32,5
1000 MHz	-	30	56	41	35	-
1350 MHz	-	-	-	-	-	-
1750 MHz	-	-	-	-	-	-
Capacitance pF/m	67	67	101	67	42,5	42,5
Rel. velocity of propagation %	67	67	67	67	83	83
Insulation resistance MOhm x kmmin.	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵
Loop resistance max. (Ohm/km)	110	23	53	171	155	136
Nominal peak voltage kVs	3	5	2	4	1	2
Dielectric strength 50 Hz kVeff	7	10	5	7	3	3

Dimensions and specifications may be changed without prior notice. (RM01)

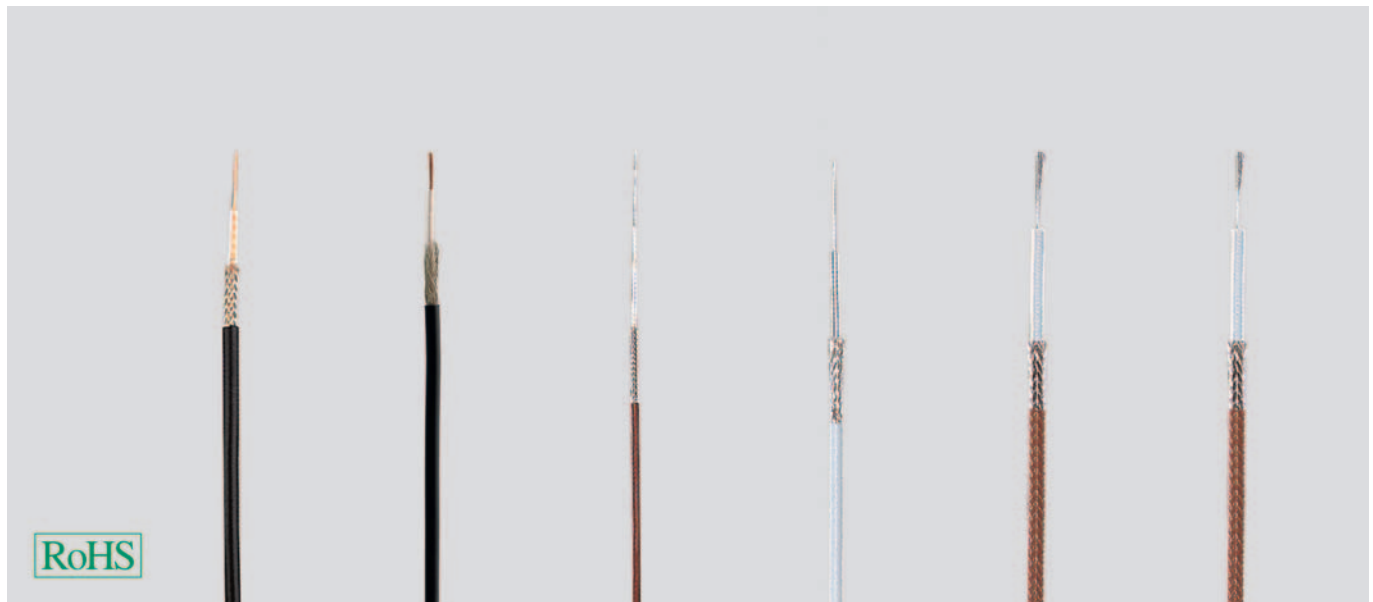
Note

- 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.
- 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.

RG-Coaxial Cables



Type	RG 174 A/U	RG 174 U	RG 178 B/U	RG 179 B/U	RG 180 B/U	RG 187 A/U
Part no.	40197	400189	40007	40008	40009	40010
Cable structure						
Inner conductor diameter mm	7 x 0,2	7 x 0,2	7 x 0,1	7 x 0,1	7 x 0,1	7 x 0,1
	Steel/copper, bare	Steel/copper, bare	Steel/copper, silvered	Steel/copper, silvered	Steel/copper, silvered	Steel/copper, silvered
Insulation Ø mm	1,52 PE	1,52 PE	0,86 PTFE	1,6 PTFE	2,6 PTFE	1,6 PTFE
Outer conductor	Braid Tinned copper	Braid Tinned copper	Braid Silvered copper	Braid Silvered copper	Braid Silvered copper	Braid Silvered copper
Outer sheath	PVC	PVC	FEP	FEP	FEP	PFA
Min. bending radius approx. mm	15	15	10	15	25	15
Temperature range °C	-35 to +80	-35 to +80	-55 to +200	-55 to +200	-55 to +200	-55 to +260
Copper weight kg/km	7,0	7,0	7,0	8,0	11,0	9,0
Outer Ø approx. mm	2,8	2,6	1,8	2,5	3,7	2,6
Weight approx. kg / km	11	11	8	16	28	17
Electrical characteristics						
Impedance (Ohm)	50 ± 2	50 ± 2	50 ± 2	75 ± 3	95 ± 5	75 ± 3
Frequency range						
f (max.) GHz	1	1	3	3	3	3
Propagation velocity v/c	0,7	0,7	0,7	0,7	0,7	0,7
Attenuation at 20°C (db/100m)						
100 MHz	30	30	43	28	20	28
200 MHz	45	45	62	41	33	41
500 MHz	73	73	102	69	-	69
800 MHz	93	93	134	92	-	92
1000 MHz	-	-	-	-	-	-
1350 MHz	-	-	-	-	-	-
1750 MHz	-	-	-	-	-	-
Capacitance pF/m	101	101	93	63	50	64
Rel. velocity of propagation %	70	70	70	70	70	70
Insulation resistance						
MOhm x kmmin.	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵
Loop resistance						
max. (Ohm/km)	360	360	860	840	840	840
Nominal peak voltage kVs	1	1	1	1	2	1
Dielectric strength						
50 Hz kVeff	2	2	2	2	2	2

Dimensions and specifications may be changed without prior notice.

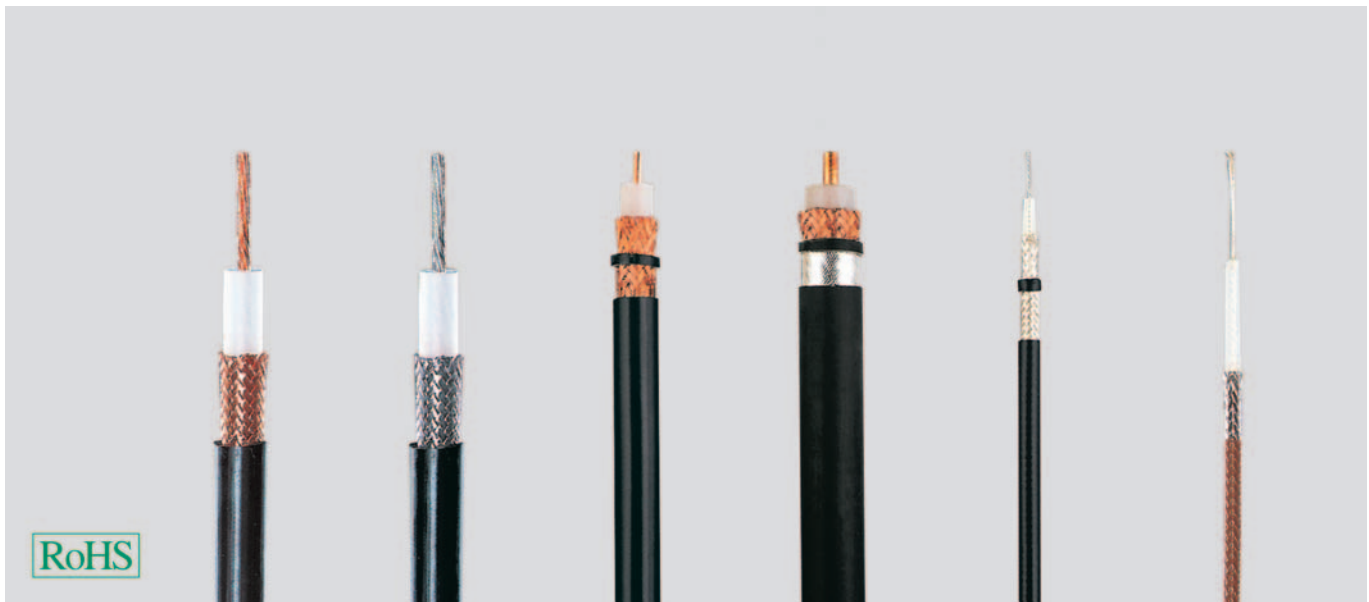
Note

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers.
- The colour at FEP and PFA outer sheath is brown or white as per production outlet.
- RG-Coaxial types are in accordance with US-Military specifications MIL-C-17.
- 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.

RG-Coaxial Cables



Type	RG 213	RG 214 U	RG 217	RG 218	RG 223 U	RG 316 B/U
Part no.	40012	40011	40200	40201	40202	40203
Cable structure						
Inner conductor diameter mm	7 x 0,8	7 x 0,8	1 x 2,7	1 x 4,95	1 x 0,9	7 x 0,2
Insulation Ø mm	7,24 PE	7,24 PE	9,4 PE	17,3 PE	2,95 PE	1,52 PTFE
Outer conductor	Braid Copper, bare	2 braids 2x silvered copper	2 braids Copper, bare	Braid Copper, bare	2 braids 2x silvered copper	Braid Silvered copper
Outer sheath	PVC	PVC	PVC	PVC	PVC	PTFE/ alt. FEP
Min. bending radius approx. mm	50	50	70	110	25	15
Temperature range °C	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-55 to +200
Copper weight kg/km	85,0	120,0	187,0	348,0	44,0	9,0
Outer Ø approx. mm	10,3	10,8	13,84	22,1	5,2	2,5
Weight approx. kg / km	159	198	300	710	60	15
Electrical characteristics						
Impedance (Ohm)	50 ± 2	50 ± 2	50 ± 2	50 ± 2	50 ± 2	50 ± 2
Frequency range						
f (max.) GHz	3	11	3	3	3	3
Propagation velocity v/c	0,7	0,7	0,66	0,66	0,7	0,7
Attenuation at 20°C (db/100m)						
100 MHz	7	7	4,8	2,9	17	28
200 MHz	10,2	10,2	7,1	4,5	23	40
500 MHz	17	17	12,3	8,1	38	68
800 MHz	23	23	16,8	11,2	50	90
1000 MHz	-	-	-	-	-	-
1350 MHz	-	-	-	-	-	-
1750 MHz	-	-	-	-	-	-
Capacitance pF/m	101	101	101	101	101	95
Rel. velocity of propagation %	100	67	100	100	67	70
Insulation resistance						
MOhm x kmmin.	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵
Loop resistance						
max. (Ohm/km)	10	10	5	2	36	310
Nominal peak voltage kVs	5	5	7	11	2	1
Dielectric strength						
50 Hz kVeff	10	10	10	15	5	2

Dimensions and specifications may be changed without prior notice.

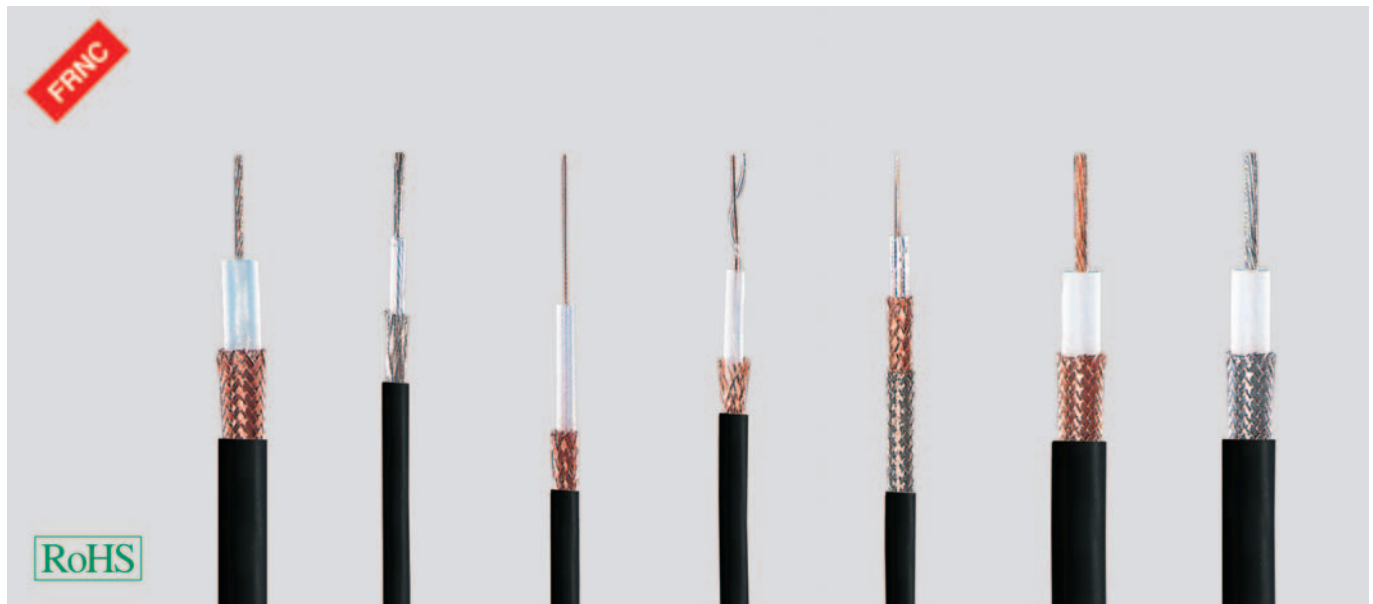
Note

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers.
- The colour outer sheath at PTFE is brown or transparent as per production outlet.
- RG-Coaxial types are in accordance with US-Military specifications MIL-C-17.
- 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



Type RG.../U	11 A/U	58 C/U	59 B/U	62 A/U	71 B/U	213 U	214 U
Part no.	40190	40191	40192	40193	40194	40195	40196

Cable structure

Inner conductor diameter mm	7 x 0,4	19 x 0,2	1 x 0,6	1 x 0,6	1 x 0,6	7 x 0,8	7 x 0,8
	Tinned copper	Tinned copper	Steel/copper, bare	Steel/copper, bare	Steel/copper, bare	Copper, bare	Silvered copper
Insulation Ø mm	7,3 PE	2,95 PE	3,7 PE	3,7 PE, hollow	3,7 PE, hollow	7,24 PE	7,24 PE
Outer conductor	Braid Copper, bare	Braid Tinned copper	Braid Copper, bare	Braid Copper, bare	2 braids Copper, bare Tinned copper	Braid Copper, bare	2 braids 2x silvered copper
Outer sheath	HM2	HM2	HM2	HM2	HM2	HM2	HM2
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
Copper weight kg/km	58,0	29,0	28,0	28,0	48,0	85,0	120,0
Outer Ø approx. mm	10,3	5,4	6,4	6,4	6,9	10,3	10,8
Weight approx. kg / km	144	38	57	54	64	155	203

Electrical characteristics

Impedance (Ohm)	75 ± 3	50 ± 2	75 ± 3	93 ± 5	93 ± 3	50 ± 2	50 ± 2
Frequency range							
f (max.) GHz	3	3	3	3	3	3	11
Propagation velocity v/c	0,7	0,7	0,7	0,8	0,8	0,7	0,7
Attenuation at 20°C (db/100m)							
3 MHz	1,3	2,9	2	2	2	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	12,2	12	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
Capacitance pF/m	68	0	68	42,5	42,5	101	101
Rel. velocity of propagation %	67	67	67	43	43	101	101
Insulation resistance MOhm x kmmin.	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵
Loop resistance max. (Ohm/km)	23	53	171	155	136	10	10
Nominal peak voltage kVs	5	2	2	1	1	5	5
Dielectric strength 50 Hz kVeff.	10	5	7	3	3	10	10

Dimensions and specifications may be changed without prior notice. (RM01)

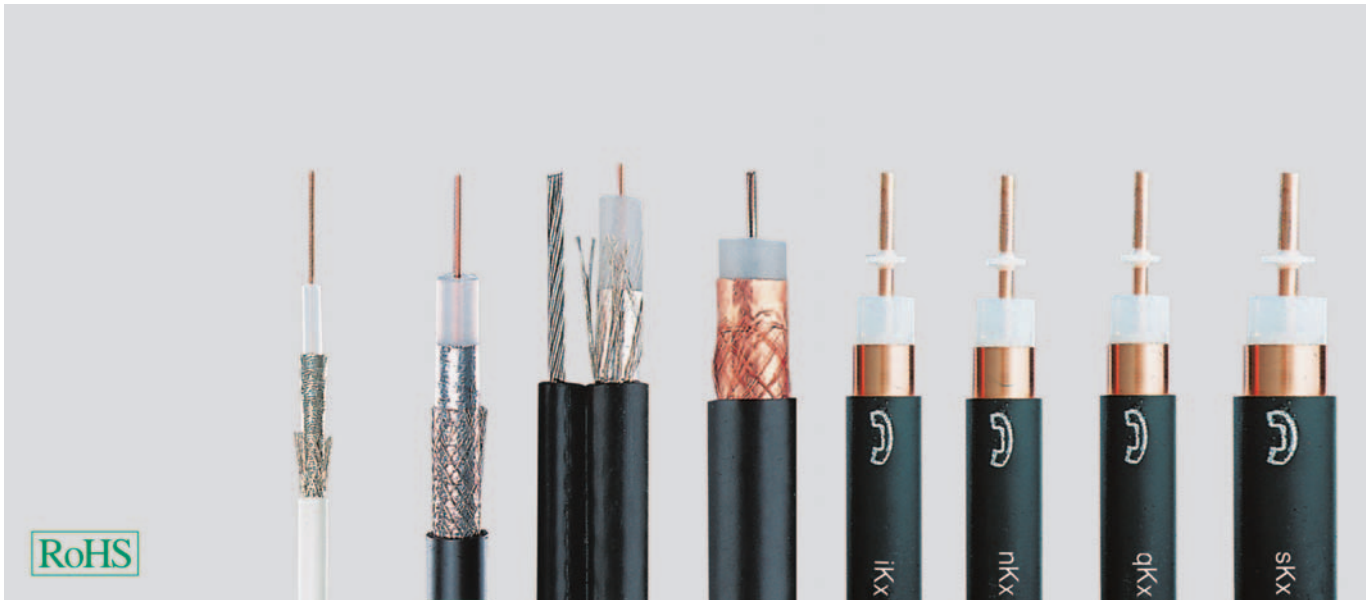
Note

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers.
- H-outer sheath = halogen-free material (HM2)
- RG-Coaxial types are in accordance with US-Military specifications MIL-C-17.
- RG/U: R=Radio, G=Guide, U=Utility
- 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.

CATV-Cables with alu- or copper foil and braiding



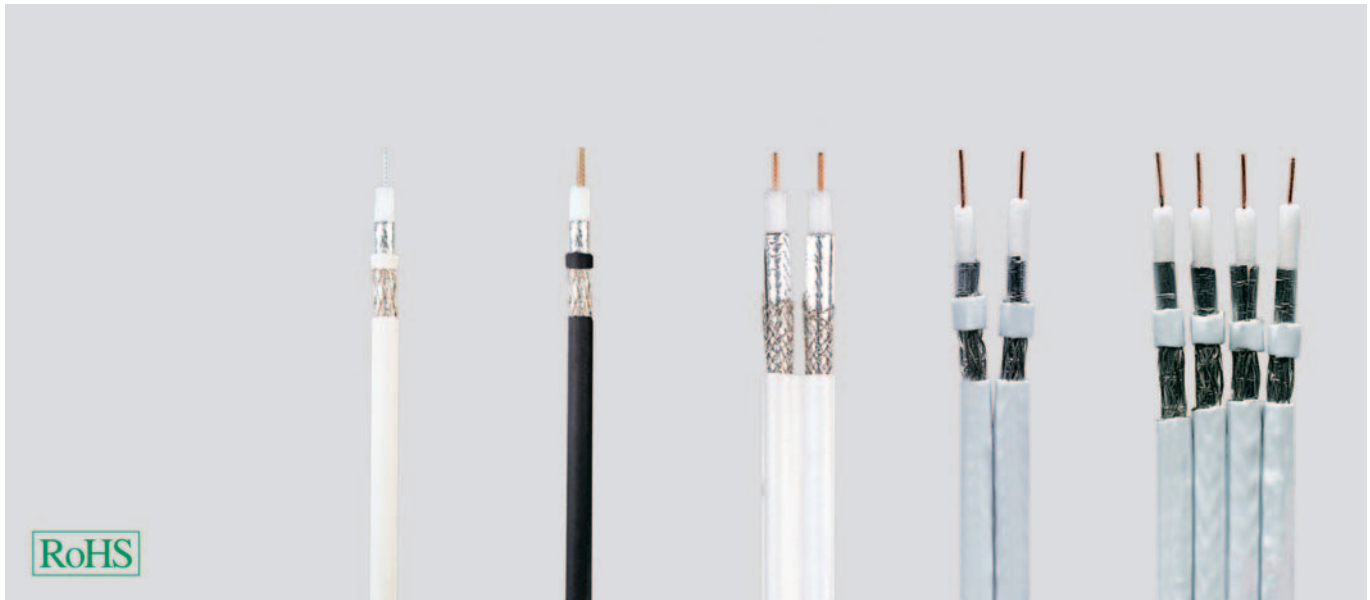
used as Type	0.7/4.4 ALG	Underground 1.1/7.3 ALG	Outdoor span 1.1/7.3 ALG-T	Underground 1.8/11.5 FG	BK-Underground A-2YK2Y1 iKx 1.1/7.3	BK-Underground A-2Y0K2Y1 nKx 2.2/8.8	BK-Underground A-2Y0K2Y1 qKx 3.3/13.5	BK-Underground A-2Y0K2Y1 sKx 4.9/19.4
Part no.	40135	40139	40140	40141	40142	40143	40144	40179
Cable structure								
Inner conductor diameter mm	0,7	1,1	1,1	1,8	1,1	2,2	3,3	4,9
Insulation Ø mm	4,4 PE	7,3 PE	7,3 PE	11,5 PE	7,3 PE	8,8 PE, hollow	13,5 PE, hollow	19,4 PE, hollow
Outer conductor	Polyester foil coated with aluminium on both sides	Polyester foil coated with aluminium on both sides	Polyester foil coated with aluminium on both sides	Copper tape	Copper tube, welded	Copper tube, welded	Copper tube, welded	Copper tube, welded
Braid	-	Braid	Braid	Braid	-	-	-	-
Outer sheath	PVC	PE	PE	PE	PE	PE	PE	PE
Sheath colour	white	black	black	black	black	black	black	black
Outer Ø approx. mm	6,6	10,5	2,8	15,0	11,0	12,5	17,0	24,4
Min. bending radius approx. mm	35	100	150	150	160	200	300	400
Strain/suspending wire N	-	-	5500	-	-	-	-	-
Weight approx. kg / km	44	98	177	218	142	183	347	500
Electrical characteristics								
Impedance (Ohm)	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 2	75 ± 2	75 ± 1	75 ± 1
Capacitance pF/m	67	67	67	67	65	51	51	50
Propagation velocity v/c	0,7	0,7	0,7	0,7	0,7	0,88	0,88	0,89
Attenuation at 20°C (db/100m)								
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	-	-	-	-
DC resistance at 20°C								
Inner conductor max.Ohm/km	47	18,5	18,5	7,3	22	5,6	2,5	1
Outer conductor max.Ohm/km	23	11	11	6,5	3,1	3	2	1
Screening efficiency (dB)								
50 and 100 MHz≥	75	80	80	80	110	110	110	110
100 and 500 MHz≥	75	85	85	85	110	110	110	110
500 and 1000 MHz≥	75	85	85	85	110	110	110	110
1000 and 2050 MHz≥	75	78	78	80	110	110	110	110
Post office approved								
	G670009A	G670011A	G622015B	G622010B	-	-	-	-

Dimensions and specifications may be changed without prior notice. (RM01)

Note

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers.
- BK-underground: broadband cable in accordance with FTZ 15 TV 11 (post cable)
- AL=Aluminium, ALPR=Polyesterfoil coated with Aluminium on both sides
- BK-cable=broadband communication cable, Cu=Copper, CuR=Cu-tube welded, CuW=Copperweld, F=Foil, G=Braid, PE=Polyethylene, PEH=Polyethylene air-space insulation, PVC=Polyvinylchloride

SAT-Coaxial Cables up to 2150 MHz, for satellite-receivers, double screened



Type	1,1/4,8	1.65/7.2 ALG	SAT-MINI 1	DUO 2x0.7/2.9	QUADRO 4x0.7/2.9
Part no.	40150	40151	40159	40168	40169
Cable structure					
Inner conductor diameter mm	1,1 Tinned copper	1,6 Copper, bare	0,8 Copper, bare	0,65 Copper, bare	0,6 Copper, bare
Insulation Ø mm	5 Cell PE	7,2 Cell PE	3,5 Cell PE	3 Cell PE	3 Cell PE
Core colours	-	-	-	-	-
Outer conductor	Polyester foil coated with aluminium on both sides Braid	Polyester foil coated with aluminium on both sides Braid	Polyester foil coated with aluminium on both sides Braid	Polyester foil coated with aluminium on both sides Braid	Polyester foil coated with aluminium on both sides Braid
Outer sheath	PVC	PE	PVC	PVC	PVC
Sheath colour	white	black	white	white	white
Outer Ø approx. mm	6,8	10,1	5,4 x 10,8	8,6 x 4,3	20,0 x 4,3
Min. bending radius approx. mm	50	60	40	35	80
Weight approx. kg / km	49	81	62	40	82
Electrical characteristics					
Impedance (Ohm)	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3
Capacitance pF/m	55	55	55	55	55
Propagation velocity v/c	0,8	0,82	0,82	0,8	0,8
Attenuation at 20°C (db/100m)					
100 MHz	5	3,7	8	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	-	-
DC resistance at 20°C					
Inner conductor max.Ohm/km	18	9	36	110	52
Outer conductor max.Ohm/km	20	12	28	22	26
Max. nominal voltage (V)	-	-	-	-	-
Screening efficiency (dB)					
50 and 100 MHz≥	75	80	78	75	75
100 and 500 MHz≥	75	85	78	75	75
500 and 1000 MHz≥	75	85	75	75	75
1000 and 2050 MHz≥	75	78	75	75	75
Post office approved					
	G670010A	G622016B	-	-	-
Copper weight kg/km	21,0	35,0	30,0	16,0	50,0

Dimensions and specifications may be changed without prior notice. (RM01)

Note

- 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, **ALPR**=Polyesterfoil coated with Aluminium on both sides
Cu=Copper, **CuW**=Copperweld, **F**=Foil, **G**=Braid, **PE**=Polyethylene, **PEH**=Polyethylene air-space insulation, **PVC**=Polyvinylchloride, **vz**=tinned

Multimedia-Coaxial Cables SAT 1,0/4,6GH, up to 2400MHz, for digital-tv, double screened, screening efficiency >90dB



used as Type	inner/outer 1.0/4.6 GH-Y	Underground 1.0/4.6 GH-2Y	Safety zones 1.0/4.6 GH-FRNC
Part no.	40176	40177	40178
Cable structure			
Inner conductor diameter mm	1 Copper with skin	1 Copper with skin	1 Copper with skin
Insulation Ø mm	4,6 Cell polyethylene with skin and PIB coating	4,6 Cell polyethylene with skin and PIB coating	4,6 Cell polyethylene with skin and PIB coating
Outer conductor	Polyester foil coated with aluminium on both sides	Polyester foil coated with aluminium on both sides	Polyester foil coated with aluminium on both sides
Outer sheath	PVC	PE	FRNC
Sheath colour	white	black	grey
Outer Ø approx. mm	6,6	6,6	6,6
Approx. bending radius approx. mm	45	45	45
Weight approx. kg / km	40	40	40
Electrical characteristics			
Impedance (Ohm)	75 ± 1	75 ± 1	75 ± 1
Capacitance pF/m	55	55	55
Propagation velocity v/c	0,8	0,85	0,85
Attenuation at 20°C (db/100m)			
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 min. (dB) between			
30 and 300 MHz	30	30	30
300 and 600 MHz	32	32	32
600 and 960 MHz	31	31	31
960 and 1750 MHz	26	26	26
1750 and 2400 MHz	30	30	30
DC resistance at 20°C			
Inner conductor max.Ohm/km	18	18	18
Outer conductor max.Ohm/km	20	20	20
Max. nominal voltage (V)	-	-	-
Screening efficiency (dB) ≥	90	90	90
Copper weight kg/km	22,0	22,0	22,0

Dimensions and specifications may be changed without prior notice. (RM01)

Note

- 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**= Polyisobutylene, **ALPR**=Polyesterfoil coated with Aluminium on both sides
F=Foil, **G**=Braid, **GH**=Braid-covering ca. 88%

Application

• 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 by approx. 2dB

• 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-cmpound) / We therefore offer a **15 years guarantee for attenuation-loss** by installation at 20°C room-temperature

• Screening

a) AL/PR-foil, polyesterfoil coated with aluminium on both sides or b) Copper braiding of tinned wires, **screening efficiency >90 dB**