Habia Cable

Standard Coax

Issue: 1

Standard Coax

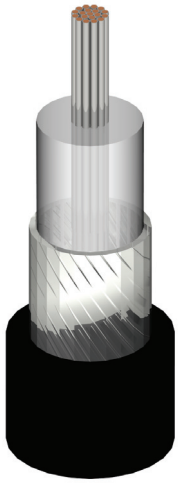
RG 58 (LS0H)

Coaxial - PE

Alternatives:
PVC jacketed version,
RG 58:
36000-058-00

Construction:

Conductor	Tin plated copper (19x0,18)*	0,90
Dielectric	Soild PE	2,95
Braid	Tin plated copper (0,13)	3,55
Jacket	HFS 80 T, Black	4,95
Weight	36 kg/km	
Temperature rating (°C)	-25 / +80°C	
Order reference	**36000-058-01**	



Notes:
All dimensions nominal (± 4%)
unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	50 ± 2 Ohms
Capacitance	nom 101 pF/m
Velocity of signal propagation	66%
Signal delay	4,9 ns/m
Working voltage, AC r.m.s.	1400 max
Working voltage, DC	2800 max
Attenuation, typical values	see table*
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 3 GHz
Shielding effectiveness	typically -60dB/m

Attenuation	
MHz	dB/100m
100	16
200	23
400	35
900	55
1200	64
1500	72
1800	79
2000	84
2500	94

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	25mm
Minimum bend radius (MBR) dynamic use	50mm

*Please note: Attenuation will be higher than stated on designs with TPC braid

Average Power	
MHz	W
100	200
200	141
400	90
900	58
1200	50
1500	45
1800	41
2000	39
2500	35

Ref: CC-eRG58-02
Date: 2007-04-27
Approved by:

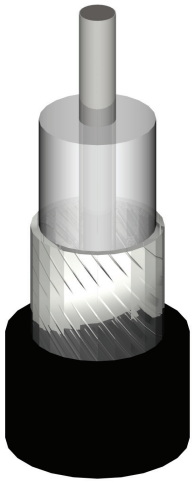
RG 59 (LS0H)

Coaxial - PE

Alternatives:
PVC jacketed version,
RG 59:
36000-059-00

Construction:

Conductor	Copper covered steel (1x0,57)	0,57
Dielectric	Solid PE	3,70
Braid	Copper (0,16)	4,45
Jacket	HFS 80 T, Black	6,15
Weight	55 kg/km	
Temperature rating (°C)	-25 / +80°C	
Order reference	**36000-059-01**	



Notes:
All dimensions nominal (± 4%)
unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	75 ± 3 Ohms
Capacitance	nom 68 pF/m
Velocity of signal propagation	66%
Signal delay	4,9 ns/m
Working voltage, AC r.m.s.	1700 max
Working voltage, DC	3400 max
Attenuation, typical values	see table*
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 3 GHz
Shielding effectiveness	typically -60dB/m

Attenuation	
MHz	dB/100m
100	11
200	16
400	24
900	39
1200	46
1500	51
1800	57
2000	60
2500	68

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	30mm
Minimum bend radius (MBR) dynamic use	60mm

Average Power	
MHz	W
100	300
200	212
400	160
900	79
1200	68
1500	61
1800	56
2000	53
2500	47

Ref: CC-eRG59-02
Date: 2007-04-27
Approved by:

RG 174

Coaxial - PE

Alternatives:
Please ask for details

Construction:

Conductor	Copper covered steel (7x0,16)	0,48
Dielectric	Solid PE	1,52
Braid	Tin plated copper (0,10)	2,23
Jacket	PVC, Black	2,80
Weight	12 kg/km	
Temperature rating (°C)	-40 / +85°C	
Order reference	**36000-174-00**	

Notes:
All dimensions nominal (± 4%)
unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	50 ± 2 Ohms
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	4,9 ns/m
Working voltage, AC r.m.s.	1100 max
Working voltage, DC	2200 max
Attenuation, typical values	see table*
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -60 dB/m

Attenuation	
MHz	dB/100m
100	28
200	40
400	58
900	90
1200	106
1500	119
1800	130
2000	138
2500	155

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 15mm
Minimum bend radius (MBR) dynamic use	multiple bends: 30mm

Average Power	
MHz	W
100	52
200	37
400	26
900	18
1200	16
1500	14
1800	13
2000	12
2500	11

Ref: CC-eRG174-02
Date: 2007-04-27
Approved by:

RG 214 (LS0H)

Coaxial - PE

Alternatives:
PVC jacketed version,
RG 214:
36000-214-00

Construction:

Conductor	Silver plated copper (7x0,75)	2,25
Dielectric	Soild PE	7,24
Braid	2x Silver plated copper (0,16)	8,70
Jacket	HFS 80 T, Black	10,80
Weight	195 kg/km	
Temperature rating (°C)	-40 / +85°C	
Order reference	**36000-214-01**	

Notes:
All dimensions nominal (± 4%)
unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	50 ± 2 Ohms
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	4.9 ns/m
Working voltage, AC r.m.s.	3700 max
Working voltage, DC	7400 max
Attenuation, typical values	see table
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -80 dB/m

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 50mm
Minimum bend radius (MBR) dynamic use	multiple bends: 100mm

Attenuation	
MHz	dB/100m
100	6
200	9
400	13
900	21
1200	24
1500	28
1800	32
2000	34
2500	39

Average Power	
MHz	W
100	900
200	636
400	320
900	213
1200	155
1500	139
1800	105
2000	100
2500	89

Ref: CC-eRG214-02
Date: 2007-04-27
Approved by:

RG 214 (T)

Coaxial - PE

Alternatives:
RG 214:
36000-214-00

RG 214 (LS0H):
36000-214-01

Construction:

Conductor	Tin plated copper (7x0,75)	2,25
Dielectric	Soild PE	7,24
Braid	Foil & Tin plated copper (0,16)	8,10
Jacket	HFS 80 T, Black	10,10
Weight	155 kg/km	
Temperature rating (°C)	-25 / +80°C	
Order reference	**401-61234-030**	

Notes:
All dimensions nominal (± 4%)
unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	50 ± 2 Ohms
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	4.9 ns/m
Working voltage, AC r.m.s.	3700 max
Working voltage, DC	7400 max
Attenuation, typical values	see table
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -80 dB/m

Attenuation	
MHz	dB/100m
100	6
200	9
400	13
900	21
1200	24
1500	28
1800	32
2000	34
2500	39

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 50mm
Minimum bend radius (MBR) dynamic use	multiple bends: 100mm

*Please note: Attenuation will be higher than stated on designs with TPC braid

Average Power	
MHz	W
100	900
200	636
400	320
900	213
1200	155
1500	139
1800	105
2000	100
2500	89

Ref: CC-eRG214T-01
Date: 2007-04-27
Approved by:

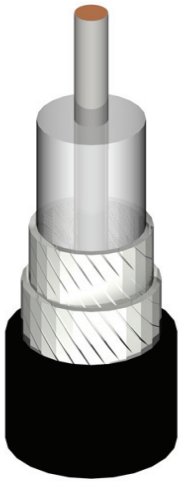
RG 223 (LS0H)

Coaxial - PE

Alternatives:
PVC jacketed version,
RG 223:
36000-223-00

Construction:

Conductor	Silver plated copper (1x0,89)	0,89
Dielectric	Soild PE	2,95
Braid	2x Silver plated copper (0,13)	4,10
Jacket	HFS 80 T, Black	5,40
Weight	57 kg/km	
Temperature rating (°C)	-40 / +85°C	
Order reference	**36000-223-01**	



Notes:
All dimensions nominal (± 4%)
unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	50 ± 2 Ohms
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	4.9 ns/m
Working voltage, AC r.m.s.	1400 max
Working voltage, DC	2800 max
Attenuation, typical values	see table
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -80 dB/m

Attenuation	
MHz	dB/100m
100	13
200	19
400	29
900	45
1200	54
1500	61
1800	69
2000	73
2500	83

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 25mm
Minimum bend radius (MBR) dynamic use	multiple bends: 50mm

Average Power	
MHz	W
100	200
200	141
400	86
900	57
1200	46
1500	41
1800	32
2000	30
2500	27

Ref: CC-eRG223-02
Date: 2007-04-27
Approved by:

RG 223 (T)

Coaxial - PE

Alternatives:
RG 223:
36000-223-00

RG 223 (LS0H):
36000-223-01

Construction:

Conductor	Tin plated copper (1x0,89)	0,89
Dielectric	Soild PE	2,95
Braid	Foil & Tin plated copper (0,13)	3,70
Jacket	HFS 80, Black	4,90
Weight	43 kg/km	
Temperature rating (°C)	-25 / +80°C	
Order reference	**401-61233-030**	

Notes:
All dimensions nominal (± 4%)
unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	50 ± 2 Ohms
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	4.9 ns/m
Working voltage, AC r.m.s.	1400 max
Working voltage, DC	2800 max
Attenuation, typical values	see table
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -80 dB/m

Attenuation	
MHz	dB/100m
100	13
200	19
400	29
900	45
1200	54
1500	61
1800	69
2000	73
2500	83

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 25mm
Minimum bend radius (MBR) dynamic use	multiple bends: 50mm

Average Power	
MHz	W
100	200
200	141
400	86
900	57
1200	46
1500	41
1800	32
2000	30
2500	27

Ref: CC-eRG223T-01
Date: 2007-04-27
Approved by:

RG 142

Coaxial - PTFE

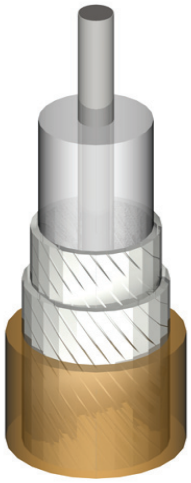
Alternatives:
RG 142 (M):
30000-142-00

Speedflex 142 (LS0H):
34000-142-00

Alternative colours also available

Construction:

Conductor	Silver plated copper (1x0,94)	0,94
Dielectric	Solid PTFE	2,95
Braid	2x Silver plated copper (0,13)	4,15
Jacket	FEP, Brown-transparent	4,80
Weight	80 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-142-50**	



Notes:
All dimensions nominal (± 4%) unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	50 ± 2 Ohms
Capacitance	94 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	1400 max
Working voltage, DC	2800 max
Attenuation, typical values	see table
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -80 dB/m

Attenuation	
MHz	dB/100m
100	13
200	18
400	26
900	40
1200	46
1500	52
1800	57
2000	61
2500	69

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 25mm
Minimum bend radius (MBR) dynamic use	multiple bends: 50mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	1300
200	919
400	650
900	433
1200	375
1500	336
1800	307
2000	291
2500	260

Ref: CC-eRG142-03
Date: 2007-08-08
Approved by:

RG 178

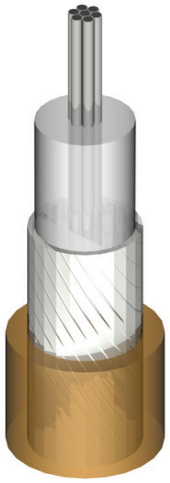
Coaxial - PTFE

Alternatives:
RG 178 (M):
30000-178-01

Alternative colours also available

Construction:

Conductor	Silver plated copper (7x0,10)	0,30
Dielectric	Solid PTFE	0,84
Braid	Silver plated copper (0,10)	1,37
Jacket	FEP, Brown-transparent	1,75
Weight	7,8 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-178-50**	



Notes:
All dimensions nominal (± 4%) unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	50 ± 2 Ohms
Capacitance	94 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	500 max
Working voltage, DC	1000 max
Attenuation, typical values (nominal values at an air temperature of +20°C)	see table
Power, typical values (ambient temperature of 40°C at sea level and VSWR 1.0)	see table
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -60 dB/m

Attenuation	
MHz	dB/100m
100	46
200	65
400	93
900	140
1200	162
1500	182
1800	200
2000	211
2500	236

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 10mm
Minimum bend radius (MBR) dynamic use	multiple bends: 20mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	150
200	106
400	75
900	50
1200	43
1500	39
1800	35
2000	34
2500	30

Ref: CC-eRG178-06
Date: 2007-04-27
Approved by:

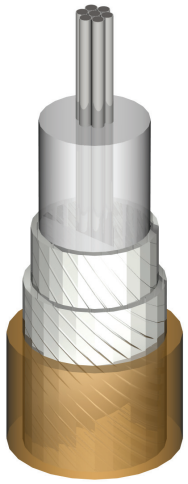
RGD 178

Coaxial - PTFE

Alternatives:
Please ask for details

Construction:

Conductor	Silver plated copper covered steel (7x0,10)	0,30
Dielectric	Solid PTFE	0,84
Braid	2x Silver plated copper (0,10)	1,85
Jacket	FEP, Brown-transparent	2,25
Weight	14 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-178-03**	



Notes:
All dimensions nominal (± 4%)
unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	50 ± 2 Ohms
Capacitance	94 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	500 max
Working voltage, DC	1000 max
Attenuation, typical values	see table
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -80 dB/m

Attenuation	
MHz	dB/100m
100	46
200	65
400	93
900	140
1200	162
1500	182
1800	200
2000	211
2500	236

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 15mm
Minimum bend radius (MBR) dynamic use	multiple bends: 25mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	150
200	106
400	75
900	50
1200	43
1500	39
1800	35
2000	34
2500	30

Ref: CC-eRGD178-04
Date: 2007-04-27
Approved by:

RG 179

Coaxial - PTFE

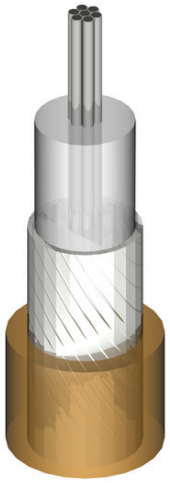
Alternatives:
RG 179 (M):
30000-179-00

Speedflex 179 (LS0H):
34000-179-00

Alternative colours also available

Construction:

Conductor	Silver plated copper (7x0,10)	0,30
Dielectric	Solid PTFE	1,60
Braid	Silver plated copper (0,10)	2,15
Jacket	FEP, Brown-transparent	2,50
Weight	15 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-179-50**	



Notes:
All dimensions nominal (± 4%) unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	75 ± 3 Ohms
Capacitance	63 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	900 max
Working voltage, DC	1800 max
Attenuation, typical values (nominal values at an air temperature of +20°C)	see table
Power, typical values (ambient temperature of 40°C at sea level and VSWR 1.0)	see table
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -60 dB/m

Attenuation	
MHz	dB/100m
100	28
200	39
400	56
900	85
1200	98
1500	110
1800	121
2000	128
2500	144

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 15mm
Minimum bend radius (MBR) dynamic use	multiple bends: 30mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	280
200	198
400	140
900	93
1200	81
1500	72
1800	66
2000	63
2500	56

Ref: CC-eRG179-04
Date: 2007-04-27
Approved by:

RGD 179

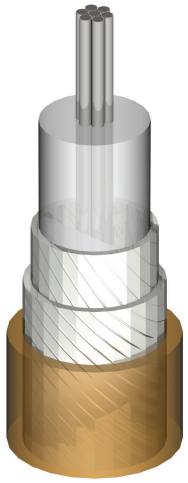
Coaxial - PTFE

Alternatives:
RGD 179 (M):
30000-179-02

Alternative colours also available

Construction:

Conductor	Silver plated copper (7x0,10)	0,30
Dielectric	Solid PTFE	1,60
Braid	2x Silver plated copper (0,10)	2,65
Jacket	FEP, Brown-transparent	3,00
Weight	23 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-179-55**	



Notes:
All dimensions nominal (± 4%) unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	75 ± 3 Ohms
Capacitance	63 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	900 max
Working voltage, DC	1800 max
Attenuation, typical values (nominal values at an air temperature of +20°C)	see table
Power, typical values (ambient temperature of 40°C at sea level and VSWR 1.0)	see table
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -80 dB/m

Attenuation	
MHz	dB/100m
100	28
200	39
400	56
900	85
1200	98
1500	110
1800	121
2000	128
2500	144

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 15mm
Minimum bend radius (MBR) dynamic use	multiple bends: 30mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	280
200	198
400	140
900	93
1200	81
1500	72
1800	66
2000	63
2500	56

Ref: CC-eRGD179-04
Date: 2007-04-27
Approved by:

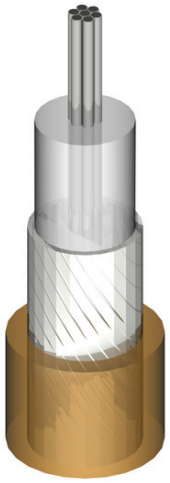
RG 180

Coaxial - PTFE

Alternatives:
Please ask for details

Construction:

Conductor	Silver plated copper covered steel (7x0,10)	0,30
Dielectric	Solid PTFE	2,60
Braid	Silver plated copper (0,10)	3,15
Jacket	FEP, Brown-transparent	3,60
Weight	27 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-180-00**	



Notes:
All dimensions nominal (± 4%)
unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	95 ± 5 Ohms
Capacitance	50 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	1000 max
Working voltage, DC	2000 max
Attenuation, typical values	see table
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -60 dB/m

Attenuation	
MHz	dB/100m
100	21
200	30
400	43
900	65
1200	76
1500	85
1800	94
2000	99
2500	111

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 20mm
Minimum bend radius (MBR) dynamic use	multiple bends: 40mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	440
200	311
400	220
900	147
1200	127
1500	114
1800	104
2000	98
2500	88

Ref: CC-eRG180-04
Date: 2007-04-27
Approved by:

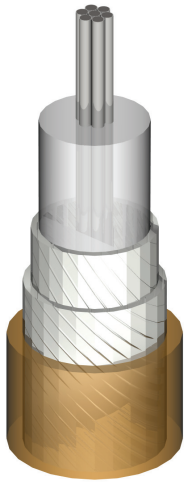
RGD 180

Coaxial - PTFE

Alternatives:
Please ask for details

Construction:

Conductor	Silver plated copper covered steel (7x0,10)	0,30
Dielectric	Solid PTFE	2,60
Braid	2x Silver plated copper (0,10)	3,65
Jacket	FEP, Brown-transparent	4,10
Weight	39 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-180-07**	



Notes:
All dimensions nominal (± 4%)
unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	95 ± 5 Ohms
Capacitance	50 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	1000 max
Working voltage, DC	2000 max
Attenuation, typical values	see table
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -80 dB/m

Attenuation	
MHz	dB/100m
100	21
200	30
400	43
900	65
1200	76
1500	85
1800	94
2000	99
2500	111

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 25mm
Minimum bend radius (MBR) dynamic use	multiple bends: 45mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	440
200	311
400	220
900	147
1200	127
1500	114
1800	104
2000	98
2500	88

Ref: CC-eRGD180-04
Date: 2007-04-27
Approved by:

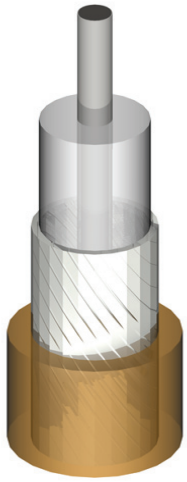
RG 302

Coaxial - PTFE

Alternatives:
Please ask for details

Construction:

Conductor	Silver plated copper covered steel (1x0,64)	0,64
Dielectric	Solid PTFE	3,70
Braid	Silver plated copper (0,13)	4,50
Jacket	FEP, Brown-transparent	5,15
Weight	54 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-302-00**	



Notes:
All dimensions nominal (± 4%)
unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	75 ± 3 Ohms
Capacitance	63 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	1700 max
Working voltage, DC	3400 max
Attenuation, typical values	see table
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -60 dB/m

Attenuation	
MHz	dB/100m
100	11
200	15
400	22
900	34
1200	39
1500	44
1800	49
2000	52
2500	59

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 30mm
Minimum bend radius (MBR) dynamic use	multiple bends: 60mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	1300
200	919
400	650
900	433
1200	375
1500	336
1800	307
2000	291
2500	260

Ref: CC-eRG302-05
Date: 2007-08-08
Approved by:

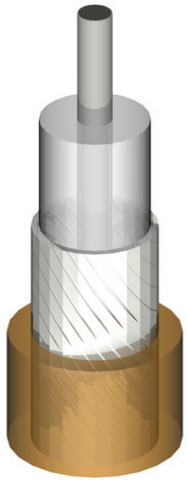
RG 303

Coaxial - PTFE

Alternatives:
Please ask for details

Construction:

Conductor	Silver plated copper covered steel (1x0,94)	0,94
Dielectric	Solid PTFE	2,95
Braid	Silver plated copper (0,13)	3,70
Jacket	FEP, Brown-transparent	4,30
Weight	45 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-303-00**	



Notes:
All dimensions nominal (± 4%)
unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	50 ± 2 Ohms
Capacitance	94 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	1400 max
Working voltage, DC	2800 max
Attenuation, typical values	see table
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -60 dB/m

Attenuation	
MHz	dB/100m
100	13
200	18
400	26
900	40
1200	46
1500	52
1800	57
2000	61
2500	69

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 25mm
Minimum bend radius (MBR) dynamic use	multiple bends: 50mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	1120
200	792
400	560
900	373
1200	323
1500	289
1800	264
2000	250
2500	224

Ref: CC-eRG303-05
Date: 2007-08-08
Approved by:

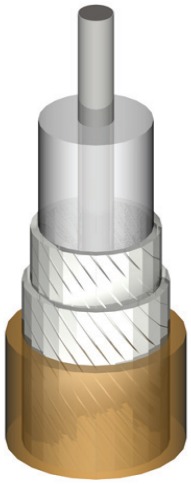
RG 304

Coaxial - PTFE

Alternatives:
Please ask for details

Construction:

Conductor	Silver plated copper covered steel (1x1,50)	1,50
Dielectric	Solid PTFE	4,70
Braid	2x Silver plated copper (0,16)	5,40
Jacket	FEP, Brown-transparent	7,10
Weight	130 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-304-00**	



Notes:
All dimensions nominal (± 4%)
unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	50 ± 2 Ohms
Capacitance	94 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	2200 max
Working voltage, DC	4400 max
Attenuation, typical values	see table
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -80 dB/m

Attenuation	
MHz	dB/100m
100	9
200	12
400	18
900	28
1200	32
1500	37
1800	41
2000	43
2500	49

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 40mm
Minimum bend radius (MBR) dynamic use	multiple bends: 80mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	2400
200	1697
400	1200
900	800
1200	693
1500	620
1800	566
2000	537
2500	480

Ref: CC-eRG304-05
Date: 2007-08-08
Approved by:

RG 316

Coaxial - PTFE

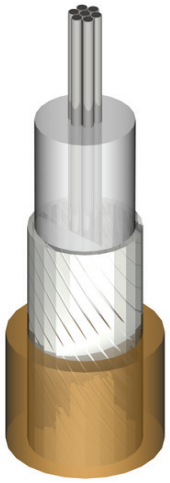
Alternatives:
RG 316 (M):
30000-316-01

Speedflex 316 (LS0H):
34000-316-00

Alternative colours also available

Construction:

Conductor	Silver plated copper (7x0,18)	0,54
Dielectric	Solid PTFE	1,56
Braid	Silver plated copper (0,10)	2,05
Jacket	FEP, Brown-transparent	2,45
Weight	15 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-316-50**	



Notes:
All dimensions nominal (± 4%) unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	50 ± 2 Ohms
Capacitance	94 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	900 max
Working voltage, DC	1800 max
Attenuation, typical values (nominal values at an air temperature of +20°C)	see table
Power, typical values (ambient temperature of 40°C at sea level and VSWR 1.0)	see table
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -60 dB/m

Attenuation	
MHz	dB/100m
100	27
200	38
400	54
900	82
1200	95
1500	106
1800	117
2000	124
2500	139

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 15mm
Minimum bend radius (MBR) dynamic use	multiple bends: 30mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	340
200	240
400	170
900	113
1200	98
1500	88
1800	80
2000	76
2500	68

Ref: CC-eRG316-05
Date: 2007-08-08
Approved by:

RGD 316

Coaxial - PTFE

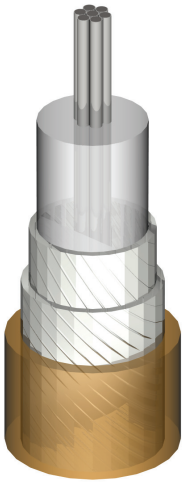
Alternatives:
RGD 316 (M):
30000-316-05

Speedflex 316d (LS0H):
34000-316-10

Alternative colours also available

Construction:

Conductor	Silver plated copper (7x0,18)	0,54
Dielectric	Solid PTFE	1,56
Braid	2x Silver plated copper (0,10)	2,45
Jacket	FEP, Brown-transparent	2,90
Weight	23 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-316-05**	



Notes:
All dimensions nominal (± 4%) unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	50 ± 2 Ohms
Capacitance	94 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	900 max
Working voltage, DC	1800 max
Attenuation, typical values (nominal values at an air temperature of +20°C)	see table
Power, typical values (ambient temperature of 40°C at sea level and VSWR 1.0)	see table
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -80 dB/m

Attenuation	
MHz	dB/100m
100	27
200	38
400	54
900	82
1200	95
1500	106
1800	117
2000	124
2500	139

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 15mm
Minimum bend radius (MBR) dynamic use	multiple bends: 30mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	340
200	240
400	170
900	113
1200	98
1500	88
1800	80
2000	76
2500	68

Ref: CC-eRGD316-05
Date: 2007-08-08
Approved by:

RG 393

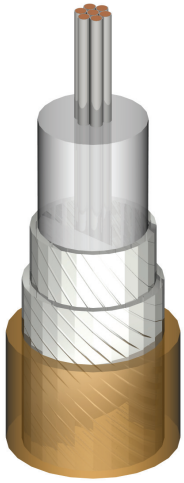
Coaxial - PTFE

Alternatives:
Speedflex 393 (LS0H):
34000-393-00

Alternative colours also available

Construction:

Conductor	Silver plated copper (7x0,80)	2,40
Dielectric	Solid PTFE	7,25
Braid	2x Silver plated copper (0,16)	8,65
Jacket	FEP, Brown-transparent	9,90
Weight	240 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-393-00**	



Notes:
All dimensions nominal (± 4%) unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	50 ± 2 Ohms
Capacitance	94 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	1900 max
Working voltage, DC	3800 max
Attenuation, typical values (nominal values at an air temperature of +20°C)	see table
Power, typical values (ambient temperature of 40°C at sea level and VSWR 1.0)	see table
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -80 dB/m

Attenuation	
MHz	dB/100m
100	7
200	10
400	14
900	22
1200	25
1500	29
1800	32
2000	34
2500	39

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 50mm
Minimum bend radius (MBR) dynamic use	multiple bends: 100mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	3600
200	2546
400	1800
900	1200
1200	1039
1500	930
1800	849
2000	805
2500	720

Ref: CC-eRG393-05
Date: 2007-08-08
Approved by:

RG 400

Coaxial - PTFE

Alternatives:
RG 400 (M):
30000-400-00

Speedflex 400 (LS0H):
34000-400-00

Alternative colours also available

Construction:

Conductor	Silver plated copper (19x0,20)	0,98
Dielectric	Solid PTFE	2,95
Braid	2x Silver plated copper (0,13)	4,15
Jacket	FEP, Brown-transparent	4,80
Weight	64 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-400-50**	

Notes:
All dimensions nominal (± 4%) unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	50 ± 2 Ohms
Capacitance	94 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	1400 max
Working voltage, DC	2800 max
Attenuation, typical values (nominal values at an air temperature of +20°C)	see table
Power, typical values (ambient temperature of 40°C at sea level and VSWR 1.0)	see table
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -80 dB/m

Attenuation	
MHz	dB/100m
100	15
200	22
400	31
900	47
1200	55
1500	62
1800	68
2000	72
2500	81

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 25mm
Minimum bend radius (MBR) dynamic use	multiple bends: 50mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	1100
200	778
400	550
900	367
1200	318
1500	284
1800	259
2000	246
2500	220

Ref: CC-eRG400-05
Date: 2007-08-08
Approved by:

SM 50

Sub-miniature - PTFE

Alternatives:
Please ask for details

Construction:

Conductor	Silver plated high strength copper alloy (1x0,16)	0,16
Dielectric	Solid PTFE	0,52
Braid	Silver plated copper (0,06)	0,85
Jacket	FEP, Brown-transparent	1,00
Weight	2,7 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-050-00**	

Notes:
All dimensions nominal (± 4%)
unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	50 ± 5 Ohms
Capacitance	94 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	400 max
Working voltage, DC	800 max
Attenuation, typical values	see table
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -60 dB/m

Attenuation	
MHz	dB/100m
100	65
200	92
400	130
900	196
1200	227
1500	254
1800	278
2000	294
2500	329

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 5mm
Minimum bend radius (MBR) dynamic use	multiple bends: 10mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	64
200	45
400	32
900	21
1200	18
1500	17
1800	15
2000	14
2500	13

Ref: CC-eSM50-04
Date: 2007-04-27
Approved by:

SM 75

Sub-miniature - PTFE

Alternatives:
Please ask for details

Construction:

Conductor	Silver plated high strength copper alloy (1x0,10)	0,10
Dielectric	Solid PTFE	0,55
Braid	Silver plated copper (0,06)	0,90
Jacket	FEP, Brown-transparent	1,00
Weight	2,6 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-075-00**	

Notes:
All dimensions nominal (± 4%)
unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	75 ± 5 Ohms
Capacitance	63 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	300 max
Working voltage, DC	600 max
Attenuation, typical values	see table
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -60 dB/m

Attenuation	
MHz	dB/100m
100	65
200	92
400	130
900	196
1200	226
1500	254
1800	278
2000	294
2500	329

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 5mm
Minimum bend radius (MBR) dynamic use	multiple bends: 10mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	64
200	45
400	32
900	21
1200	18
1500	17
1800	15
2000	14
2500	13

Ref: CC-eSM75-04
Date: 2007-04-27
Approved by:

SM 95

Sub-miniature - PTFE

Alternatives:
Please ask for details

Construction:

Conductor	Silver plated high strength copper alloy (1x0,10)	0,10
Dielectric	Solid PTFE	0,95
Braid	Silver plated copper (0,06)	1,30
Jacket	FEP, Brown-transparent	1,40
Weight	4,9 kg/km	
Temperature rating (°C)	-55 / +200°C	
Order reference	**30000-095-00**	

Notes:
All dimensions nominal (± 4%)
unless otherwise stated.
All dimensions in mm.

Electrical:

Impedance	95 ± 5 Ohms
Capacitance	50 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Working voltage, AC r.m.s.	400 max
Working voltage, DC	800 max
Attenuation, typical values	see table
(nominal values at an air temperature of +20°C)	
Power, typical values	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies	up to 2,5 GHz
Shielding effectiveness	typically -60 dB/m

Attenuation	
MHz	dB/100m
100	47
200	67
400	95
900	143
1200	165
1500	185
1800	204
2000	215
2500	241

Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 7mm
Minimum bend radius (MBR) dynamic use	multiple bends: 14mm
Flame resistance	passes IEC 60332-3-24
Flammability	passes UL 94 V-0
Connectors	compatible with all standard types

Average Power	
MHz	W
100	120
200	85
400	60
900	40
1200	35
1500	31
1800	28
2000	27
2500	24

Ref: CC-eSM95-04
Date: 2007-04-27
Approved by: