

COAX Cables
Radio Frequency Cables

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Introduction

The RF cables specified in this brochure are manufactured according to German standards, for example **DIN 47 269**, **DIN VDE 0887**, **IEC 1196-1**, **TGL-Standards**, international standards, for example RG cables to **MIL-C-17** and in compliance with customers individual specifications.

Types and abbreviations

- HF 75** = radio frequency cable and impedance
- ...J...** = installation cable for broadband communication
- ...Cu** = Cu-foil screening + braiding
- ...AL** = Aluminium-foil-screening + braiding
- HFE...** = high frequency power cables
- ...R** = suitable for radio transmission
- ...D** = double screening
- .../K** = calibrated (longitudinally homogeneous dielectric)
- ...L** = stranded conductor
- HFFR ...** = halogen free, flame retardant version (≈ FRNC)
- RG...** = abbreviation for cables to MIL-C-17
- .../U** = original type to MIL-C-17
- ...A/U** = indicates an alteration of
- ...B/U** = the original type to MIL-C-17
- ...C/U**
- M17/...RG** = new designation to MIL-C-17

Temperature range

Cables	Working temperature (fix installed)
with PE-sheath	- 50°C to + 80°C
with PVC sheath	- 25°C to + 70°C
with FEP/PTFE-sheath	- 90°C to + 200°C

Construction

1. Construction

1.1 Inner conductor

Electrolytic copper, plain, tinned or silvered as a solid or stranded conductor, a copper clad steel conductor may be used for applications requiring greater stability.

1.2 Insulation (dielectric)/Propagation velocity

The insulations of the RF cables consist of	ϵ_r	v_r
solid PE (PE)	2,3	0,66
solid PE, cross linked by irradiation (XPE)	2,3	0,66
foamed PE (PES)	1,6	0,79
foamed PE, cross linked by irradiation (XPES)	1,6	0,79
solid FEP (FEP)	2,1	0,69
solid PTFE (PTFE)	2,1	0,69

The relative propagation velocity v_r of the coaxial RF cables is a function of the relative dielectric coefficient of the insulation ϵ_r .

1.3 Outer conductor

Usual are braided, plain, tinned or silvered copper wires. Double braiding and/or a copper foil respectively AL/PT foils laminated may be applied where the effect of single braiding is insufficient.

1.4 Sheath

For sheathing of the cables we use PVC, PE, PUR, FEP, PTFE and halogen free flame retardant materials and for cross-linked irradiated versions XPVC, (ELCUVIN[®]), XPE (ELCUPEX[®]), XPUR (ELCUPUR[®]) and other cross-linked irradiated elastomers.

Characteristics

2. Characteristics

2.1 Electrical

Figures have been determined according to IEC 1196 respectively to MIL-C-17

2.1.1 Coupling resistance

The coupling resistance highlights the screening effect of the outer conductor of a RF cable. Therefore, the extent of covering by the outer conductor (braid) is determined by the optimum coupling resistance.

2.1.2 Dielectric resistance

The indicated voltage figures are effective values of the utmost admissible RF voltage (r.m.s.).

The double RF voltage is admitted when working with an impulse D.C. voltage.

The cables can be used for a voltage as much as up to approx. 5 times the corresponding RF voltage with D.C. voltage.

2.2 Mechanical

Our coaxial RF cables show a good flexibility. The following minimum bending radii have to be considered:

for fixed installation $r = 5 \times D$,

for repeated bendings $r = 20 \times D$.

Special constructions and approvals

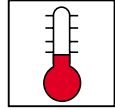
3. Special constructions and approvals

Development capacity, modern production and testing facilities are available for special constructions according to customers specifications.

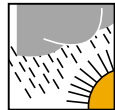
Special construction possibilities:

Mu-metal screening; copper or steel corrugated sheaths; armouring with strengthened outer sheath; cable with suspension strand; triaxial cables; multicoaxial cables.

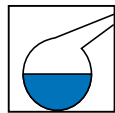
Pictographs



Operating temperature



Weather resistance



Chemical resistance



Fire retardant

Coaxial cables

Impedance 50 Ω

Applications

50 ohm are typical for broadcast communication. Nexans coaxial cables are divided into stranded applications with PVC jacket and special applications engineered like Marine, Railway, Halogen Free Flame Retardant.

Design (typical – more details in the following table)

1. Conductor

- bare
- tinned
- silver-plated
- solid
- stranded

2. Insulation

- PE solid
- foamed

3. Screen

- braid
- metal foil
- braid + metal foil combined

4. Jacket

- PVC
- PE
- PUR
- HFFR etc.



Marking

Type, Impedance + Nexans
(Minimum order quantity with your name, text)

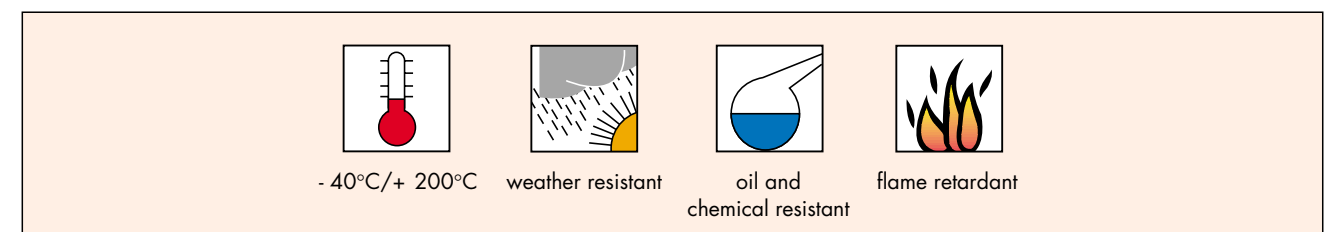
Core identification

natural

Standards

according German standards,
MIL, IEC and customer
specifications like
IEC 332-1
IEC 332-3
VW1

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Coaxial cables 50 Ω

Technical data

Reference	Inner conductor mm Ø	Insulation mm Ø	Outer conductor respectively screen	Sheath, colour
RG-58 C/U*	tinned copper 19 x 0,19 0,9	PE 2,95	tinned copper braiding	PVC, black
RG-174/U*	bare steel copper 7 x 0,16 0,5	PE 1,5	tinned copper braiding	PVC, black
RG-213/U*	bare copper 7 x 0,76 2,3	PE 7,3	bare copper braiding	PVC, black
RG-214/U*	silver-plated copper 7 x 0,76 2,3	PE 7,3	2 silver-plated copper braiding	PVC, black
RG-215/U	bare copper 7 x 0,76 2,3	PE 7,3	bare copper braiding	PVC, black + steel wire braided
RG-217/U*	bare copper 1 x 2,7 2,7	PE 9,4	2 bare copper braiding	PVC, black
RG-218/U*	bare copper 1 x 5,0 5,0	PE 17,3	bare copper braiding	PVC, black
RG-219/U	bare copper 1 x 5,0 5,0	PE 17,3	bare copper braiding	PVC, black + steel wire braided
RG-223/U*	silver-plated copper 1 x 0,9 0,9	PE 3,0	2 silver-plated copper braiding	PVC, black
HFE 50-2,2/7,3 R-D/K*	bare copper 1 x 2,12 2,12	PE 7,25	silver-plated copper braiding + bare copper braiding	PVC, black
HF 50-2,2/6,2 (Ethernet-Coax)	bare copper 1 x 2,18 2,18	PES 6,2	Al-foil + 1. tinned copper braiding + Al-foil + 2. tinned copper braiding	PVC, yellow
HF 50 0,8L/2,1 02YS(ST)CY	plain copper 7 x 0,25 0,8	Skin PE 2,1	Al-foil + tinned copper braiding	PVC, black
HF 50 0,9/2,95L TRIAX	tinned copper 19 x 0,19 0,9	PE 2,95	tinned copper braiding PVC inner jacket + tinned copper braiding	PVC, black
HF 50 1,4L/3,7 Low Loss	plain copper 19 x 0,287 1,44	foamed PE 3,70	Al-foil + tinned copper braiding	PVC, black
HF 50 2,7/7,3* (RG 8)	plain copper 1 x 2,74 2,74	foamed PE 7,25	Al-foil, bonded to the dielectric + tinned braid	PE, black

* = standard

Outer diameter approx. mm	Weight approx. kg/km	Impedance Ohm	Capacitance approx. pF/m	max. RF voltage kV r.m.s.	Attenuation approx. dB/100 m at 200 MHz	Art.no.
4,95	36	50 ± 2	101	1,9	24	503958
2,8	12	50 ± 2	101	1,5	45	430974
10,3	151	50 ± 2	101	5,0	10	430913
10,8	179	50 ± 2	101	5,0	10	430914
12,5	237	50 ± 2	101	5,0	10	430915
13,8	297	50 ± 2	101	7,0	7,1	430917
22,1	674	50 ± 2	101	11,0	4,5	430918
24,3	888	50 ± 2	101	11,0	4,5	430919
5,3	58	50 ± 2	101	1,9	20	430923
10,8	222	50 ± 1	101	5,0	9,1	430111
10,2	175	50 ± 2	82	1,0	8,5 dB/500 m (Segment) at 10 MHz	430119
3,5	16	50 ± 3	84	0,4	22	430806
7,25	85	50 ± 2	100	1,9	25,5	431349
5,5	45	50 ± 3	82	0,9	12,7	503005
10,15	130	50 ± 2	78	1,0	5,8	431103

Coaxial cables

Impedance 75 Ω

Applications

75 ohm are typical for video signal transmission, broadcast or measurement equipment. Nexans coaxial cables are divided into stranded applications with PVC jacket and special applications engineered like Marine, Railway, Halogen Free Flame Retardant.

Design (typical – more details in the following table)

1. Conductor

- bare
- tinned
- silver-plated
- solid
- stranded

2. Insulation

- PE solid
- foamed

3. Screen

- braid
- metal foil
- braid + metal foil combined

4. Jacket

- PVC
- PE
- PUR
- HFFR
- etc.



Marking

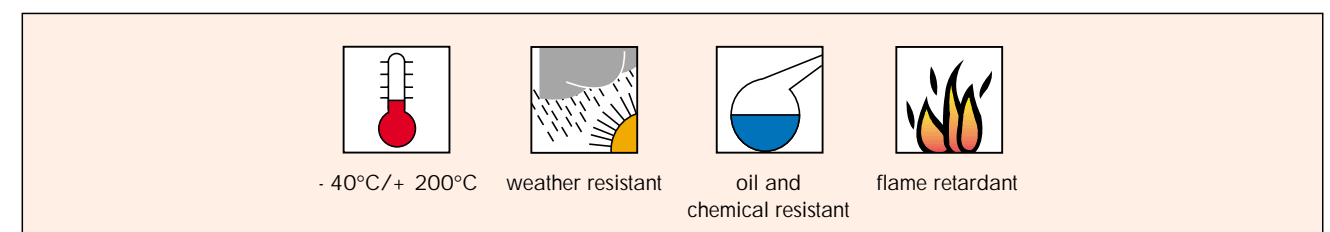
Type, Impedance + Nexans
(Minimum order quantity with your name, text)

Core identification

natural

Standards

according German standards, MIL, IEC and customer specifications



Coaxial cables 75 Ω

Technical data

Reference	Inner conductor mm Ø	Insulation mm Ø	Outer conductor respectively screen	Sheath, colour
HF 75 - 0,6/3,7	bare copper 1 x 0,6 0,6	PE 3,7	tinned copper braiding	PVC, black
HF 75 - 0,6/3,7 L*	bare copper 7 x 0,20 0,6	PE 3,7	tinned copper braiding	PVC, green
HF 75 - 0,6/3,7 Triax	bare copper – clad steel 1 x 0,6 0,6	PE 3,7	bare copper braiding/ tinned copper braiding	PVC, black
HFE 75 - 1,0/6,5-90*	bare copper 1 x 1,0 1,0	PE 6,5	bare copper braiding	PVC, green
HFE 75 - 1,0/6,5	bare copper 1 x 1,0 1,0	PE 6,5	2 bare copper braiding	PVC, green
RG - 11 A/U*	tinned copper 7 x 0,40 1,2	PE 7,3	bare copper braiding	PVC, black
RG - 12 A/U	tinned copper 7 x 0,40 1,2	PE 7,3	bare copper braiding	PVC, black + steel wire braided
RG - 34 B/U	bare copper 7 x 0,64 1,9	PE 11,7	bare copper braiding	PVC, black
RG - 59 B/U*	bare copper – clad steel 1 x 0,6 0,6	PE 3,7	bare copper braiding	PVC, black
HF 75 0,3/2,0	bare copper 1 x 0,32 0,32	PE 1,95	2 x tinned copper braiding	PVC, black

* = standard

Outer diameter approx. mm	Weight approx. kg/km	Impedance Ohm	Capacitance approx. pF/m	max. RF voltage kV r.m.s.	Attenuation approx. dB/100 m at 200 MHz	Art.no.
5,4	42	75 ± 3,75	68	2,0	16,5	431343
6,0	51	75 ± 3	68	2,3	15	431344
8,4	117	75 ± 3	68	2,3	16,5	431345
8,8	120	75 ± 3,75	68	3,5	11	430103
10,3	179	75 ± 1,5	68	3,5	10	430104
10,3	139	75 ± 3	68	5,0	11	430911
12,5	246	75 ± 3	68	5,0	11	430912
16,0	304	75 ± 3	68	6,5	7,8	430934
6,15	57	75 ± 3	68	2,3	16,5	503959
3,70	26	75 ± 3	66	1,5	31,9	503001

Coaxial cables Others

Halogen Free, Flame Retardant Versions (HFFR)
50 Ω; 75 Ω; 105 Ω

Applications

The HFFR version is suitable for data transmission, track signaling, measurement equipment, low capacitance for long distances etc.

Design (typical – more details in the following table)

1. Conductor

- bare
- tinned
- silver-plated
- solid
- stranded

2. Insulation

- PE solid
- foamed

3. Screen

- braid
- metal foil
- braid +metal foil combined

4. Jacket

- PVC
- PE
- PUR
- HFFR etc.



Marking

Type, Impedance + Nexans
(Minimum order quantity with your name, text)

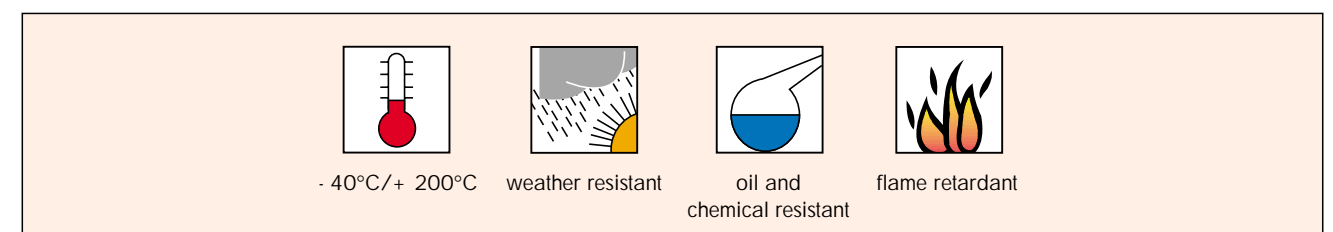
Core identification

natural

Standards

IEC 332-1
VDE 0472/804.B

(IEC 332-3, VDE 0472/804.C
on request)



Coaxial cables HFFR

Technical data

Reference	Inner conductor mm Ø	Insulation mm Ø	Outer conductor respectively screen	Sheath, colour
RG 58 HFFR*	tinned copper 19 x 0,19 0,9	PE 2,95	tinned copper braiding	Polyolefine, black
RG 213 HFFR*	bare copper 7 x 0,76 2,3	PE 7,3	tinned copper braiding	Polyolefine, black
RG 214 HFFR*	silver plated 7 x 0,76 2,3	PE 7,3	2 silver plated braiding	Polyolefine, black
RG 218 HFFR*	bare copper 1 x 5,0 5,0	PE 17,3	tinned copper braiding	Polyolefine, black
RG 223 HFFR*	silver-plated copper 1 x 0,9 0,9	PE 3,0	double tinned copper braiding	Polyolefine, black
HF 50 2,2/6,2 HFFR (Ethernet-Coax)	bare copper 1 x 2,18 2,18	PES 6,2	Al-foil + tinned copper braiding + Al-foil + tinned copper braiding	Polyolefine, black
RG 59 HFFR*	bare copper - clad steel wire 1 x 0,6 0,6	PE 3,7	tinned copper braiding	Polyolefine, black
RG 11 HFFR*	tinned copper 7 x 0,4 1,20	PE 7,3	tinned copper braiding	Polyolefine, black
RG 22 HFFR*	2 x bare copper	7,3	double tinned braiding	Polyolefine, black

* = standard

IEC 332.3 with special construction possible. Please ask us.

Outer diameter approx. mm	Weight approx. kg/km	Impedance Ohm	Capacitance approx. pF/m	max. RF voltage kV r.m.s.	Attenuation approx. dB/100 m at 200 MHz	Remark	Art.no.
5,0	42	50 ± 2	101	1,9	24	Test IEC 332.1	431360
10,3	160	50 ± 2	101	5,0	10,2	Test IEC 332.1	431318
10,8	190	50 ± 2	101	5,0	10,2	Test IEC 332.1	431359
22,5	750	50 ± 2	101	11,0	4,5	Test IEC 332.1	431...
5,6	70	50 ± 2	101	1,9	20	Test IEC 332.1	431117
10,3	205	50 ± 2	80	1,0	8,5 db/500 m (Segment) at 10 MHz	Test IEC 332.1	430120
6,2	70	75 ± 3	68	2,3	16,5	Test IEC 332.1	431367
11,0	155	75 ± 3	68	5,0	5,	Test IEC 332.1	431378
10,7	175	95 ± 5	55	2,0	19,4	Test IEC 332.1	431369

Coaxial cables Others

RG- and Special Types 78 Ω - 240 Ω
Low Capacitance Versions 75 Ω

Applications

RG- and special types for marine, railway, broadcast communication, video cables, fixed installations, indoor applications etc.

Design (typical – more details in the following table)

1. Conductor

- bare
- tinned
- silver-plated
- solid
- stranded

2. Insulation

- PE solid
- foamed

3. Screen

- braid
- metal foil
- braid + metal foil combined

4. Jacket

- PVC
- PE
- PUR
- HFFR etc.



Marking

Type, Impedance + Nexans
(Minimum order quantity with your name, text)

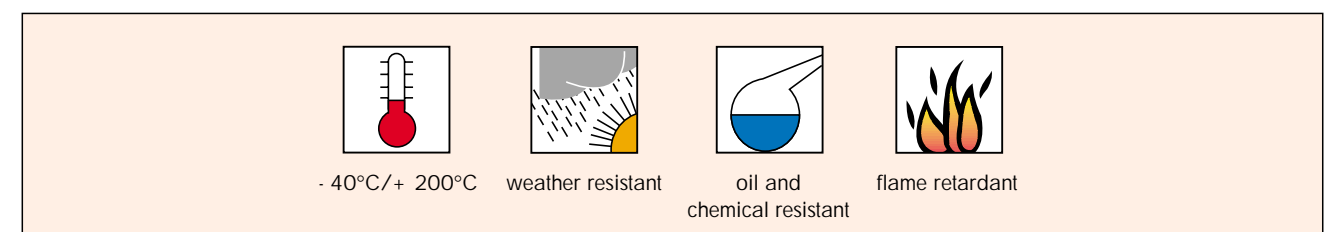
Core identification

natural

Standards

according German standards, MIL, IEC and customer specifications like

IEC 332-1
IEC 332-3
VW1



Coaxial cables – RG- and special types

Technical data

Reference	Inner conductor mm Ø	Insulation mm Ø	Outer conductor respectively screen	Sheath, colour
HF 50 0,8 L/2,1 02YS(ST)CY	plain copper 7 x 0,25	foamed PE 2,1	AL-foil + tinned copper braiding	PVC
HF 50 1,4 L/3,7 02Y(ST)CY	plain copper 7 or 19 wires	foamed PE 3,7	AL-foil + tinned copper braiding	PVC
MUK 5 x HF 75 0,3 L/1,8 2YCY*	tinned copper 7 x 0,1	PE 1,8	bare copper braiding	PVC, grey
MUK 3 x HF 75 0,6 L/2,4 02YCYC11Y*	bare copper 7 x 0,2	foamed PE 2,4	bare copper braiding	PUR, black
MUK 5 x HF 75 0,6 L/2,4 02YCYC11Y*	bare copper 7 x 0,2	foamed PE 2,4	bare copper braiding	PUR, black
HF 75- PES 1,6/7,3*	bare copper 1 x 1,6	foamed PE 7,3	AL-foil + tinned copper braiding	PE
HF 75 0,7/3,7 02YS(ST)CY + 1 A 0,6	plain copper 1 x 0,7	foamed PE 3,7	AL-foil + tinned copper braiding	halogenfree, flame- retardent Copolymer
HF 75 1,0/4,5 02YCYC11Y	silver plated copper 1 x 1,0	foamed PE 4,5	silver plated copper braiding	PE
HF 75 1,4 L/6,0 02YCYC18YCY	silver plated copper	foamed PE 6,0	silver plated copper braiding	very flexible PVC
RG-108 A/U	2 tinned copper 7 x 0,32	PE 2 x 2,0	tinned copper braiding	PVC, black
RG-22 B/U*	2 bare copper 7 x 0,40	PE 7,3	2 tinned copper braiding	PVC, black
Twinax	bare copper or tinned copper 7 x 0,32	PE 6,1	bare copper braiding	PVC, black
HF 130 0,26/3,40 02YCY	plain copper 1 x 0,26	foamed PE 3,4	plain copper braided	PVC, grey

* = standard
** = Reference to MIL-C-17G

Outer diameter approx. mm	Weight approx. kg/km	Impedance Ohm	Capacitance approx. pF/m	max. RF voltage kV r.m.s.	Attenuation approx. dB/100 m at 200 MHz	Remark	Art.no.
3,5	16	50 ± 3	84	0,4	22,0	Mini low loss	430806
5,5	45	50 ± 3	82	0,9	12,7	low loss cable	503005
9,2	99	75 ± 5	67	0,2	9 at 10 MHz	monitor cable	430833
11,0	143	75 ± 5	55	0,2	7 at 20 MHz	monitor cable	430835
12,0	159	75 ± 5	55	0,2	7 at 20 MHz	monitor cable	430836
10,3	84	75 ± 3	60	2,0	6	suitable for long distances direct burial	430856
7	58	75 ± 3	56	0,7	12,8		503005
6,4	100	75 ± 3	54	1,0	9,6	Triax 8	430855
11,2	180	75 ± 3	54	1,0	8,6	Triax 11	430853
6,0	45	78 ± 7	85	2,0		Attenuation at 10 MHz 2,8 db/100 ft.	430908
10,7	180	95 ± 5	52	1,0	16,5		430922
8,3	1020	105 ± 5	50	1,0	19,5	IBM-Part-No. 7362211	430302
5,1	35	130 ± 10	31	0,2	20,8 Test IEC 332.1	antenna cable	431321
3,5	12,5	n.N.	28	0,1 cable, inner	n.N.	oscilloscope conductor resistance 200 Ω/m	434934

ELCURIGID

for example type 141-50 FEP

High screened coaxial RF- cable with tin soaked braid

Applications

For the internal cabling of transmitter-antennas and generally for measurements and electronic equipment components to be controlled with high frequent signals.

Max. core temperature:
+ 260 °C

Design

1. Conductor

Cu vag (or Staku vag)

3. Screen

Tin soaked copper braiding

2. Insulation

Teflon- PTFE 5YI1 according to VDE 0207 part 5

4. Outer Sheath

Teflon-FEP



Marking

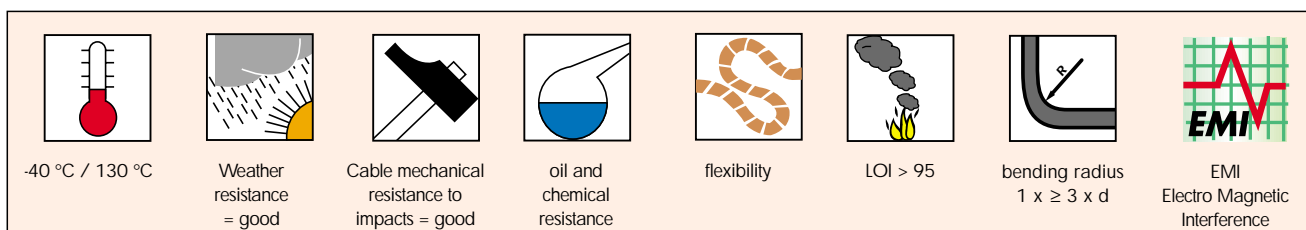
optional

Core identification

transparent insulation

Standards

IEC 61196-1
IEC 60096-0-1
IEC 61196-1



ELCURIGID



Overview of all ELCURIGID types

Type	Charateristic impedance IEC 61196-1 11.8.1 Ω	Capacitance IEC 61196-1 11.3 pF/m	Screening attenuation IEC 61196-1 12.6 dB	Insulation resistance IEC 61196-1 11.2 G Ω · km	Withstand voltage of dielectric IEC 61196-1 11.5 50 Hz, 1 min kV eff	Return loss min. IEC 61196-1 11.12 dB	Attenuation IEC 61196-1 13.6		Power rating and working voltage IEC 60096-0-1	
							Typ. Max. 1000 MHz	Typ. Max. 2000 MHz	P [W] U [V] 1000 MHz	P [W] U [V] 2000 MHz
ECR 86-50	50 ± 2	97	≥ 80 dB	10	2,0	25 dB	73,8 82	110 125	165 90	110 75
ECR 86-50-FEP	50 ± 2	97	at	10	2,0	with	73,8 82	110 125	165 90	110 75
ECR 141-50	50 ± 2	97	10 MHz	10	4,0	single	40,2 47	60,1 70	485 150	320 120
ECR 141-50-FEP	50 ± 2	97	-	10	4,0	peaks	40,2 47	60,1 70	485 150	320 120
ECR 141-75 (Staku vag)	75 ± 3	63	2000	10	4,0	up	42,2 49	63,1 72	410 175	280 140
ECR 141-75-FEP (Staku vag)	75 ± 3	63	MHz	10	4,0	to	42,2 49	63,1 72	410 175	280 140
ECR 141-75 (Cu vag)	75 ± 3	63	multiple	10	3,5	20 dB	42,2 49	63,1 72	410 175	280 140
ECR 141-75-FEP	75 ± 3	63	bending	10	3,5	at	42,2 49	63,1 72	410 175	280 140
ECR 141-75-FEP	75 ± 3	63	decreases	10	3,5	50 MHz	42,2 49	63,1 72	410 175	280 140
ECR 141-35	35 ± 2	137	the	10	4,0	-	46,7 56	70,1 85	450 120	300 100
ECR 141-35-FEP	35 ± 2	137	screening	10	4,0	2000	46,7 56	70,1 85	450 120	300 100
ECR 141-60	60 ± 2	78	effective-	10	4,0	MHz	41,4 47	61,9 70	485 170	320 135
ECR 141-60-FEP	60 ± 2	78	ness	10	4,0		41,4 47	61,9 70	485 170	320 135
ECR 141-100	100 ± 5	47		10	2,5		48,4 54	71 79	330 180	225 150
ECR 141-100-FEP	100 ± 5	47		10	2,5		48,4 54	71 79	330 180	225 150
ECR 250-50	50 ± 2	97		10	7,0		23,8 28	36,3 42	1220 250	820 200
ECR 250-50-FEP	50 ± 2	97		10	7,0		23,8 28	36,3 42	1220 250	820 200



PTFE (5Y)/FEP (6Y) according to RG-142

Applications
High Temperature Coaxial Cables

Max. core temperature:
+ 200 °C

Design

1. Inner Conductor

Copper-clad steel wire silver plated Ø 0,94 mm

2. Insulation

solid insulated PTFE
Ø 3,0 mm

**3. Outer Conductor
respectively screen**

double silver-plated,
copper braiding

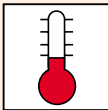
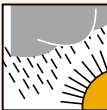


4. Sheath

FEP



Type colour
transparent-brown

Standards
IEC 60096-0-1

			
- 40°C/+ 200°C	good	yes	yes

PTFE (5Y)/FEP (6Y)

Technical data

Outer diameter	Weight approx.	Impedance	Capacitance approx.	Max. RF voltage	Attenuation approx
mm	kg/km	Ohm	pF/m	kV r.m.s.	db/100m at 200 MHz
4,95	63	50 ± 2	95	1,9	20



PTFE (5Y)/FEP (6Y) according to RG-400

Applications
High Temperature Coaxial Cables

Max. core temperature:
+ 200 °C

Design

1. Inner Conductor

Copper-clad steel wire silver plated 19 x 0,20
Ø 1,0 mm

3. Outer Conductor respectively screen
double silver-plated, copper braiding

2. Insulation

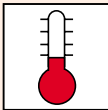



solid insulated PTFE
Ø 3,0 mm

4. Sheath
FEP



Type colour
transparent-brown

Standards
IEC 60096-0-1

			
- 40°C/+ 200°C	good	yes	yes

PTFE (5Y)/FEP (6Y)

Technical data

Outer diameter mm	Weight approx. kg/km	Impedance Ohm	Capacitance approx. pF/m	Max. RF voltage kV r.m.s.	Attenuation approx db/100m at 200 MHz
4,95	63	50 ± 2	95	1,9	20



PTFE (5Y)/FEP (6Y) according to RG-178

Applications
High Temperature Coaxial Cables

Max. core temperature:
+ 200 °C

Design

1. Inner Conductor

Copper-clad steel wire silver
plated 7 x 0,10
Ø 0,30 mm

**3. Outer Conductor
respectively screen**

silver-plated, copper braiding

2. Insulation

solid insulated PTFE
Ø 0,90 mm

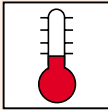
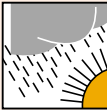


4. Sheath

FEP



Type colour
transparent-brown

Standards
IEC 60096-0-1

			
- 40°C/+ 200°C	good	yes	yes

PTFE (5Y)/FEP (6Y)

Technical data

Outer diameter mm	Weight approx. kg/km	Impedance Ohm	Capacitance approx. pF/m	Max. RF voltage kV r.m.s.	Attenuation approx db/100m at 200 MHz	Remark
1,85	8	50 ± 2	95	1,5	62	≅ RG-196



PTFE (5Y)/FEP (6Y) according to RG-316

Applications
High Temperature Coaxial Cables

Max. core temperature:
+ 200 °C

Design

1. Inner Conductor

Copper-clad steel wire silver plated 7 x 0,17
Ø 0,51 mm

3. Outer Conductor respectively screen

silver-plated, copper braiding

2. Insulation

solid insulated PTFE
Ø 1,50 mm

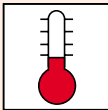



4. Sheath

FEP



Type colour
transparent-brown

Standards
IEC 60096-0-1

			
- 40°C/+ 200°C	good	yes	yes

PTFE (5Y)/FEP (6Y)

Technical data

Outer diameter mm	Weight approx. kg/km	Impedance Ohm	Capacitance approx. pF/m	Max. RF voltage kV r.m.s.	Attenuation approx db/100m at 200 MHz	Remark
2,5	15	50 ± 2	95	1,5	40	≅ RG-188



PTFE (5Y)/FEP (6Y) according to RG-179

Applications
High Temperature Coaxial Cables

Max. core temperature:
+ 200 °C

Design

1. Inner Conductor

Copper-clad steel wire silver
plated 7 x 0,10
Ø 0,30 mm

**3. Outer Conductor
respectively screen**

silver-plated, copper braiding

2. Insulation

solid insulated PTFE
Ø 1,50 mm

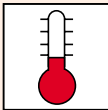

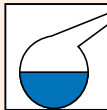

4. Sheath

FEP



Type colour
transparent-brown

Standards
IEC 60096-0-1

			
- 40°C/+ 200°C	good	yes	yes

PTFE (5Y)/FEP (6Y)

Technical data

Outer diameter mm	Weight approx. kg/km	Impedance Ohm	Capacitance approx. pF/m	Max. RF voltage kV r.m.s.	Attenuation approx db/100m at 200 MHz	Remark
2,55	14	75 ± 3	64	1,5	41	≅ RG-187



PTFE (5Y)/FEP (6Y) according to RG-180

Applications
High Temperature Coaxial Cables

Max. core temperature:
+ 200 °C

Design

1. Inner Conductor

Copper-clad steel wire silver
plated 7 x 0,10
Ø 0,30 mm

**3. Outer Conductor
respectively screen**

silver-plated, copper braiding

2. Insulation

solid insulated PTFE
Ø 1,50 mm

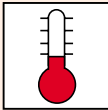
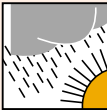


4. Sheath

FEP



Type colour
transparent-brown

Standards
IEC 60096-0-1

			
- 40°C/+ 200°C	good	yes	yes

PTFE (5Y)/FEP (6Y)

Technical data

Outer diameter mm	Weight approx. kg/km	Impedance Ohm	Capacitance approx. pF/m	Max. RF voltage kV r.m.s.	Attenuation approx db/100m at 200 MHz	Remark
3,7	28	95 ± 5	49	1,5	33	≅ RG-195

