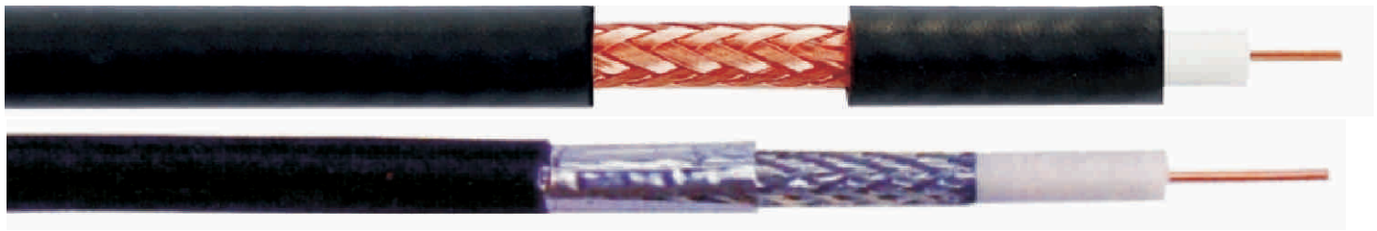
COAXIAL CABLE

Customization
Customized colour option and printing of the outer sheath on request

PTFE, High Temperature	**200°C**	**RJ 1301**
PE, Normal Temperature	**70°C**	**RJ 1302**



Product Description:

These Cable are designed for low loss, stable operation from the relatively low frequencies through the higher frequencies in the microwave regions of the frequency spectrum. Cables may also be used as circuit elements, delay lines or Impedance matching devices.

Make Up:

- Solid or standard conductor made up of Silver plated copper clad steel (SCCS) or Silver plated copper(SPC) or Tinned plated copper(TPC) or Annealed Bare Copper (BC)
- Dielectric layer of spiral wrapped & fused PTFE Tape Outer conductor made up of Single or Double braids of silver plated copper or as per design
- An overall jacket of
  - (a) Wrapped & sintered PTFE Tape]
  - (b) One or two Wraps of PTFE Tape, One or more glass fiber braids and coated with special high temperature varnish.
  - (c) With PE insulation and PVC Jacket

Product Features:

- 100% screening, hence excellent protection against interference.
- Ease of stripping, connecting and soldering.
- Good chemical resistance.
- High stress resistance (vibrations)
- Good Phase stability.

Approvals:

RoHS ENVIRONMENTALLY FRIENDLY ISO 9001 QUALITY ASSURANCE CE

Application:

- Use with wave guides.
- Micro-wave transmission and delay lines.
- High speed calculating machines.
- Low noise amplifier circuits.
- Perfectly screened connections.
- Improvement of technology of internal module connections.
- Aerospace applications.

Technical Data:

- **Specific insulation resistance**
  > 20 G Ohm x cm
- **Conductor stranding**
  Fine wire in accordance to VDE 0295 Class 5 / IEC 60228 Class 5
- **Minimum bending radius**
  15 x cable diameter
- **Rated voltage**
  As per specific design
- **Test voltage**
  As per specific design
- **Range of temperature**
  Working Temp: - 55°C to 200°C

PTFE, High Temperature — RJ 1301

Part Number		1301 00101	1301 00102	1301 00103	1301 00104	1301 00105	1301 00106	1301 00107
RG Type		**140**	**142**	**165**	**187/179**	**188/316**	**195**	**196/178**
Conductor	Stranding	1/0.64	1	7	7	7	7	7
	Material	SCCS	SCCS	SPC	SCCS	SCCS	SCCS	SCCS
	OD(mm)	0.64	0.94	2.46	0.3	0.51	0.31	0.31
Dielectric	Material	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
	OD(mm)	3.7	2.95	7.24	1.52	1.52	2.59	0.86
Shield	Outer	SPC	SPC	SPC	SPC	SPC	SPC	SPC
Material	inner	-	SPC	-	-	-	-	-
Jacket	Material	PTFE & 1 FG braid	PTFE	PTFE & 2 FG braid	PTFE	PTFE	PTFE	PTFE
	OD(mm)	5.94	4.95	10.41	2.79	2.79	3.94	2.03
Max. weight (gm/mtr)			52	170	15	15	30	8
Temp. range	Low(°C)	-55	-55	-55	-55	-55	-55	-55
	High(°C)	+200	+200	+200	+200	+200	+200	+200
Impedence ohms		75	50	50	75	50	95	50
Nominal Capacitance		68.9	97	96.8	65.6	95	52.2	95
Nominal	@10 MHz	-	3.4	2	18.2	15	11.3	19.3
Attenuation	@400MHz	26.2	25.8	15.5	68.9	57.5	55.8	95
dB/100m	@1GHz	-	48	26	83	107	58	158
Max. Power	@10 MHz		6000	15000	1400	770	2000	640
	@400MHz		810	2000	320	270	400	120
	@1GHz		430	1200	190	155	250	74
Velocity of Propagation %		69	69	69	69	69	69	69

PE, Normal Temperature — RJ 1302

Part Number	Type RG/u	Conductor Material	No. & dia. of wires (mm)	Dielectric material	Dia. Over Dielectric (mm)	No. & material of shied braid	Dia over jacket (mm)	Impedance (Ohms)	Capacitance (pF/Mtr)	Attenuation (Max) At 400 MHZ (db/100 Mtrs)	Max Operating Voltage (volt)
RJ 1302											
1302 00101	**6**	CCS	1/0.71	PE	4.69	2SC&BC	8.40	75	64.00	19.80	2700
1302 00102	**8**	BC	7/0.71	PE	7.23	1BC	10.30	52	96.76	16.48	5000
1302 00103	**11**	TPC	7/0.41	PE	7.23	1BC	10.30	75	67.25	17.10	5000
1302 00104	**58**	BC	1/0.81	PE	2.94	1TC	4.90	53	93.50	32.63	1900
1302 00105	**58B**	BC	1/0.81	PE	2.94	1TC	6.10	53	93.50	22.90	1900
1302 00106	**58C**	TPC	19/0.18	PE	2.94	1TC	4.90	50	98.40	42.52	1900
1302 00107	**59B**	CCS	1/0.58	PE	3.70	1BC	6.10	75	68.88	29.50	2300
1302 00108	**62**	CCS	1/0.64	PE	3.70	1BC	6.15	93	47.60	26.20	750
1302 00109	**174**	CCS	7/0.16	PE	1.52	1TC	2.54	50	99.70	65.60	1500
1302 00110	**213**	BC	7/0.75	PE	7.23	1BC	10.29	50	96.80	18.00	5000
1302 00111	**214**	SPC	7/0.75	PE	7.23	2SC	10.80	50	96.76	10.50	5000
1302 00112	**223**	SPC	1/0.90	PE	2.94	2SC	5.49	50	96.30	38.40	1900
1302 00113	**218**	BC	1/4.95	PE	17.27	1BC	22.1	50	96.7	8.2	11000

CCS: Copper Coated Steel
SCCS: Silver Plated Copper Coated Steel Wire
PTFE: Poly tetra Flouroethylene
BC: Bare Copper
SPC: Silver Plated Copper
TPC: Tinned Plated Copper
PE: Polyethylene