HENGXIN
TECHNOLOGY

COMPANY PROFILE

Hengxin is a leading manufacturer of RF coaxial cables and CATV. Established in 2003 with its manufacturing base in Jiangsu Province, China. It is a dual listing company in Singapore and Hong Kong. It is involved in the research, manufacture and sale of 50Ω and 75Ω series RF Coaxial Cables for wireless communication applications, and CATV cables for systems and network access and mobile network accessories consisting of connectors, jumpers arrestors, antenna and feeders.

Quality and safety are handled with the highest regard by Hengxin. Since 2003, it has been certified with ISO9001 Quality Management System Certification, ISO14001 Environment Management System, OHSAS 18001 Occupational Health and Safety Management Certification, and has also been appraised as a "Hi-Tech Enterprise of China National Torch Planning". In addition, our products also passed the United States' Underwriter Laboratories Inc's public safety certification.

As recognition of our products' premium quality, its manufacturing subsidiary in China has won several accolades such as State New Key Product, High-Tech Product of Jiangsu Province and Renowned Product of Jiangsu Province. It has also obtained 17 utility type patents from the Property Rights Bureau of National Information.

Hengxin initiated its maiden export operations in 2006. Since then, our products have been exported to various countries in Europe and the Asia-Pacific region.

The company has over the years acquired state-of-the-art equipment and technical know-how in its pursuit of product excellence. These factors put forth a remarkably high performance cables and equipment accessories which are manufactured exclusively to our clients' specifications.

TABLE OF CONTENTS

FLEXIBLE RF CABLE
HCAAY-50-6 (1/4")

CONSTRUCTION MATERIALS	
Inner Conductor	Copper-Clad Aluminum Wire
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS	
Inner Conductor Diameter	2.60 mm
Dielectric Diameter	6.45 mm
Outer Conductor Diameter	7.70 mm
Diameter Over Jacket	9.00 mm

MECHANICAL SPECIFICATIONS	
Minimum Bending Radius	
Single Bending	38 mm
Repeated Bending	76 mm
Minimum Number of Bends	15
Tensile Strength	530 N (119 lb)

ENVIRONMENTAL SPECIFICATIONS	
Storage Temperature	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C

ELECTRICAL SPECIFICATIONS	
Capacitance	78.0 pF/m (23.8 pF/ft)
Impedance	50 ± 1 Ω
Velocity	86%
RF Peak Voltage	0.83 kV
Peak Power Rating	11 kW
Cut-off Frequency	18.6 GHz
Shielding Effectiveness>10MHz	>120 dB
Insulation Resistance	5000 MΩ•km
VSWR	
0.8~1.0 GHz	≤1.10
1.7~2.4 GHz	≤1.10

PERFORMANCE

Frequency	Attenuation		Average
MHz	dB/100 m	dB/100 ft	Power Rating (kW)
100	4.05	1.23	1.87
150	5.00	1.52	1.51
200	5.80	1.77	1.30
280	7.05	2.15	1.07
450	8.90	2.71	0.85
800	12.10	3.69	0.62
900	12.80	3.90	0.58
1000	13.60	4.15	0.55
1500	17.00	5.18	0.44
1800	18.90	5.76	0.40
2000	20.00	6.10	0.37
2200	21.10	6.43	0.35
2400	22.30	6.80	0.34
2500	23.00	7.01	0.34
3000	25.20	7.68	0.30
3400	27.00	8.24	0.28
4000	29.70	9.06	0.25
5000	33.90	10.30	0.22

Standard Conditions:
For Attenuation: VSWR 1.0, Cable temperature 20 °C (68 °F)
For Average Power: VSWR 1.0, Ambient temperature 40 °C (104 °F)
Inner Conductor temperature 100 °C (212 °F). No solar loading.
Maximum attenuation value shall be 105% of the nominal attenuation value.

FLEXIBLE RF CABLE
HCAAY-50-8 (3/8")

CONSTRUCTION MATERIALS	
Inner Conductor	Copper-Clad Aluminum Wire
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS	
Inner Conductor Diameter	3.10 mm
Dielectric Diameter	8.35 mm
Outer Conductor Diameter	9.50 mm
Diameter Over Jacket	11.20 mm

MECHANICAL SPECIFICATIONS	
Minimum Bending Radius	
Single Bending	40 mm
Repeated Bending	95 mm
Minimum Number of Bends	15
Tensile Strength	910 N (200 lb)

ENVIRONMENTAL SPECIFICATIONS	
Storage Temperature	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C

ELECTRICAL SPECIFICATIONS	
Capacitance	76.0 pF/m (23.2 pF/ft)
Impedance	50 ± 1 Ω
Velocity	88%
RF Peak Voltage	1.05 kV
Peak Power Rating	15.6 kW
Cut-off Frequency	13.5 GHz
Shielding Effectiveness>10MHz	>120 dB
Insulation Resistance	5000 MΩ•km
VSWR	
0.8~1.0 GHz	≤1.10
1.7~2.4 GHz	≤1.10

PERFORMANCE

Frequency	Attenuation		Average
MHz	dB/100 m	dB/100 ft	Power Rating (kW)
100	3.42	1.04	2.23
150	4.22	1.29	1.81
200	4.90	1.49	1.56
280	6.00	1.83	1.27
450	7.50	2.29	1.02
800	10.20	3.11	0.75
900	10.90	3.32	0.71
1000	11.60	3.54	0.67
1500	14.40	4.39	0.53
1800	16.00	4.88	0.48
2000	17.00	5.18	0.46
2200	17.90	5.46	0.43
2400	18.70	5.70	0.42
2500	19.30	5.88	0.41
3000	21.30	6.49	0.37
3400	23.00	7.00	0.34
4000	25.30	7.70	0.31
5000	28.80	8.78	0.27

Standard Conditions:
For Attenuation: VSWR 1.0, Cable temperature 20 °C (68 °F)
For Average Power: VSWR 1.0, Ambient temperature 40 °C (104 °F)
Inner Conductor temperature 100 °C (212 °F). No solar loading.
Maximum attenuation value shall be 105% of the nominal attenuation value.

FLEXIBLE RF CABLE
HCAAY-50-12 (1/2")

CONSTRUCTION MATERIALS	
Inner Conductor	Copper-Clad Aluminum Wire
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS	
Inner Conductor Diameter	4.80 mm
Dielectric Diameter	12.30 mm
Outer Conductor Diameter	13.80 mm
Diameter Over Jacket	15.70 mm

MECHANICAL SPECIFICATIONS	
Minimum Bending Radius	
Single Bending	50 mm
Repeated Bending	125 mm
Minimum Number of Bends	15
Tensile Strength	1100 N (247 lb)

ENVIRONMENTAL SPECIFICATIONS	
Storage Temperature	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C

ELECTRICAL SPECIFICATIONS	
Capacitance	76.0 pF/m (23.2 pF/ft)
Impedance	50 ± 1 Ω
Velocity	88%
RF Peak Voltage	1.60 kV
Peak Power Rating	40 kW
Cut-off Frequency	8.8 GHz
Shielding Effectiveness>10MHz	>120 dB
Insulation Resistance	5000 MΩ•km
VSWR	
0.8~1.0 GHz	≤1.10
1.7~2.4 GHz	≤1.10

PERFORMANCE

Frequency	Attenuation		Average
MHz	dB/100 m	dB/100 ft	Power Rating (kW)
100	2.15	0.66	3.94
150	2.67	0.81	3.17
200	3.08	0.94	2.75
280	3.73	1.14	2.27
450	4.70	1.43	1.80
800	6.35	1.94	1.33
900	6.75	2.06	1.25
1000	7.20	2.19	1.18
1500	9.05	2.76	0.95
1800	9.90	3.02	0.86
2000	10.05	3.06	0.81
2200	11.10	3.38	0.77
2400	11.60	3.54	0.75
2500	11.95	3.64	0.73
3000	13.20	4.02	0.65

Standard Conditions:
For Attenuation: VSWR 1.0, Cable temperature 20 °C (68 °F)
For Average Power: VSWR 1.0, Ambient temperature 40 °C (104 °F)
Inner Conductor temperature 100 °C (212 °F). No solar loading.
Maximum attenuation value shall be 105% of the nominal attenuation value.

FLEXIBLE RF CABLE
HCTAY-50-16 (5/8")

CONSTRUCTION MATERIALS	
Inner Conductor	Smooth Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS	
Inner Conductor Diameter	7.00 mm
Dielectric Diameter	18.00 mm
Outer Conductor Diameter	19.70 mm
Diameter Over Jacket	21.90 mm

MECHANICAL SPECIFICATIONS	
Minimum Bending Radius	
Single Bending	75 mm
Repeated Bending	200 mm
Minimum Number of Bends	15
Tensile Strength	1150 N (259 lb)

ENVIRONMENTAL SPECIFICATIONS	
Storage Temperature	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C

ELECTRICAL SPECIFICATIONS	
Capacitance	76.0 pF/m (23.2 pF/ft)
Impedance	50 ±1 Ω
Velocity	88%
RF Peak Voltage	2.50 kV
Peak Power Rating	62 kW
Cut-off Frequency	6.5 GHz
Shielding Effectiveness>10MHz	>120 dB
Insulation Resistance	5000 MΩ•km
VSWR	
0.8~1.0 GHz	≤1.10
1.7~2.4 GHz	≤1.10

PERFORMANCE

Frequency	Attenuation		Average
MHz	dB/100 m	dB/100 ft	Power Rating (kW)
100	1.49	0.45	5.71
150	2.05	0.62	4.15
200	2.14	0.65	3.97
280	2.90	0.88	2.93
450	3.28	1.00	2.58
800	4.48	1.37	1.89
900	4.77	1.45	1.77
1000	5.06	1.54	1.67
1500	6.42	1.96	1.33
1800	7.02	2.14	1.20
2000	7.46	2.27	1.13
2200	7.87	2.40	1.10
2400	8.27	2.52	1.03
2500	8.60	2.62	0.99
3000	9.41	2.87	0.89

Standard Conditions:
For Attenuation: VSWR 1.0, Cable temperature 20 °C (68 °F)
For Average Power: VSWR 1.0, Ambient temperature 40 °C (104 °F)
Inner Conductor temperature 100 °C (212 °F). No solar loading.
Maximum attenuation value shall be 105% of the nominal attenuation value.

FLEXIBLE RF CABLE
HCTAY-50-22 (7/8")

CONSTRUCTION MATERIALS	
Inner Conductor	Smooth Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS	
Inner Conductor Diameter	9.00 mm
Dielectric Diameter	22.30 mm
Outer Conductor Diameter	24.90 mm
Diameter Over Jacket	27.50 mm

MECHANICAL SPECIFICATIONS	
Minimum Bending Radius	
Single Bending	90 mm
Repeated Bending	250 mm
Minimum Number of Bends	15
Tensile Strength	1470 N (330 lb)

ENVIRONMENTAL SPECIFICATIONS	
Storage Temperature	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C

ELECTRICAL SPECIFICATIONS	
Capacitance	75.0 pF/m (22.9 pF/ft)
Impedance	50 ± 1 Ω
Velocity	89%
RF Peak Voltage	3.00 kV
Peak Power Rating	91 kW
Cut-off Frequency	5.20 GHz
Shielding Effectiveness>10MHz	>120 dB
Insulation Resistance	5000 MΩ•km
VSWR	
0.8~1.0 GHz	≤1.10
1.7~2.4 GHz	≤1.10

PERFORMANCE

Frequency	Attenuation		Average
MHz	dB/100 m	dB/100 ft	Power Rating (kW)
100	1.17	0.36	8.62
150	1.40	0.43	7.20
200	1.69	0.52	5.99
280	2.05	0.62	4.94
450	2.60	0.79	3.88
800	3.56	1.09	2.83
900	3.80	1.16	2.65
1000	4.03	1.23	2.50
1500	5.08	1.55	1.99
1800	5.61	1.71	1.79
2000	6.05	1.84	1.68
2200	6.40	1.95	1.59
2400	6.75	2.06	1.54
2500	6.90	2.10	1.50
3000	7.60	2.32	1.33

Standard Conditions:
For Attenuation: VSWR 1.0, Cable temperature 20 °C (68 °F)
For Average Power: VSWR 1.0, Ambient temperature 40 °C (104 °F)
Inner Conductor temperature 100 °C (212 °F). No solar loading.
Maximum attenuation value shall be 105% of the nominal attenuation value.

FLEXIBLE RF CABLE
HCTAY-50-23 (7/8"A)

CONSTRUCTION MATERIALS	
Inner Conductor	Smooth Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS	
Inner Conductor Diameter	9.45 mm
Dielectric Diameter	22.80 mm
Outer Conductor Diameter	25.40 mm
Diameter Over Jacket	27.80 mm

MECHANICAL SPECIFICATIONS	
Minimum Bending Radius	
Single Bending	90 mm
Repeated Bending	250 mm
Minimum Number of Bends	15
Tensile Strength	1500 N (332 lb)

ENVIRONMENTAL SPECIFICATIONS	
Storage Temperature	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C

ELECTRICAL SPECIFICATIONS	
Capacitance	74.0 pF/m (22.6 pF/ft)
Impedance	50 ± 1 Ω
Velocity	89%
RF Peak Voltage	3.00 kV
Peak Power Rating	91 kW
Cut-off Frequency	4.90 GHz
Shielding Effectiveness>10MHz	>120 dB
Insulation Resistance	5000 MΩ•km
VSWR	
0.8~1.0 GHz	≤1.10
1.7~2.4 GHz	≤1.10

PERFORMANCE

Frequency	Attenuation		Average
MHz	dB/100 m	dB/100 ft	Power Rating (kW)
100	1.13	0.34	7.49
150	1.40	0.43	6.05
200	1.62	0.49	5.21
280	1.95	0.59	4.33
450	2.50	0.76	3.39
800	3.42	1.04	2.48
900	3.65	1.11	2.32
1000	3.88	1.18	2.19
1500	4.90	1.49	1.74
1800	5.45	1.66	1.53
2000	5.75	1.75	1.48
2200	6.15	1.87	1.42
2400	6.45	1.97	1.31
2500	6.76	2.06	1.26
3000	6.95	2.12	1.17

Standard Conditions:
For Attenuation: VSWR 1.0, Cable temperature 20 °C (68 °F)
For Average Power: VSWR 1.0, Ambient temperature 40 °C (104 °F)
Inner Conductor temperature 100 °C (212 °F). No solar loading.
Maximum attenuation value shall be 105% of the nominal attenuation value.

FLEXIBLE RF CABLE
HCTAY-50-32 (1-1/4")

CONSTRUCTION MATERIALS	
Inner Conductor	Smooth Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS	
Inner Conductor Diameter	13.00 mm
Dielectric Diameter	32.80 mm
Outer Conductor Diameter	35.80 mm
Diameter Over Jacket	38.60 mm

MECHANICAL SPECIFICATIONS	
Minimum Bending Radius	
Single Bending	150 mm
Repeated Bending	380 mm
Minimum Number of Bends	15
Tensile Strength	2900 N (650 lb)

ENVIRONMENTAL SPECIFICATIONS	
Storage Temperature	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C

ELECTRICAL SPECIFICATIONS	
Capacitance	76.0 pF/m (23.2 pF/ft)
Impedance	50 ±1 Ω
Velocity	88%
RF Peak Voltage	4.30 kV
Peak Power Rating	205 kW
Cut-off Frequency	3.70 GHz
Shielding Effectiveness>10MHz	>120 dB
Insulation Resistance	5000 MΩ•km
VSWR	
0.8~1.0 GHz	≤1.10
1.7~2.4 GHz	≤1.10

PERFORMANCE

Frequency	Attenuation		Average
MHz	dB/100 m	dB/100 ft	Power Rating (kW)
100	0.80	0.24	12.52
150	0.98	0.30	10.27
200	1.15	0.35	8.64
280	1.38	0.42	7.34
450	1.78	0.54	5.52
800	2.47	0.75	4.03
900	2.64	0.80	3.73
1000	2.80	0.85	3.50
1500	3.56	1.09	2.80
1800	3.96	1.21	2.50
2000	4.23	1.29	2.31
2200	4.48	1.37	2.19
2400	4.75	1.45	2.08
2500	4.84	1.48	2.02
3000	5.42	1.65	1.79

Standard Conditions:
For Attenuation: VSWR 1.0, Cable temperature 20 °C (68 °F)
For Average Power: VSWR 1.0, Ambient temperature 40 °C (104 °F)
Inner Conductor temperature 100 °C (212 °F). No solar loading.
Maximum attenuation value shall be 105% of the nominal attenuation value.

FLEXIBLE RF CABLE
HHTAY-50-42 (1-5/8″)

CONSTRUCTION MATERIALS	
Inner Conductor	Helical Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS	
Inner Conductor Diameter	17.40 mm
Dielectric Diameter	42.80 mm
Outer Conductor Diameter	46.50 mm
Diameter Over Jacket	49.50 mm

MECHANICAL SPECIFICATIONS	
Minimum Bending Radius	
Single Bending	200 mm
Repeated Bending	510 mm
Minimum Number of Bends	15
Tensile Strength	3300 N (750 lb)

ENVIRONMENTAL SPECIFICATIONS	
Storage Temperature	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C

ELECTRICAL SPECIFICATIONS	
Capacitance	76.0 pF/m (23.2 pF/ft)
Impedance	50 ±1 Ω
Velocity	88%
RF Peak Voltage	5.70 kV
Peak Power Rating	320 kW
Cut-off Frequency	2.80 GHz
Shielding Effectiveness>10MHz	>120 dB
Insulation Resistance	5000 MΩ•km
VSWR	
0.8~1.0 GHz	≤1.10
1.7~2.4 GHz	≤1.10

PERFORMANCE

Frequency	Attenuation		Average
MHz	dB/100 m	dB/100 ft	Power Rating (kW)
100	0.67	0.20	16.90
150	0.84	0.26	13.48
200	0.98	0.30	11.60
280	1.20	0.37	9.47
450	1.53	0.47	7.36
800	2.12	0.65	5.26
900	2.28	0.69	4.93
1000	2.42	0.74	4.61
1500	3.09	0.94	3.64
1800	3.45	1.05	3.27
2000	3.68	1.12	3.00
2200	3.91	1.19	2.85
2400	4.13	1.26	2.70
2500	4.24	1.29	2.61

Standard Conditions:
For Attenuation: VSWR 1.0, Cable temperature 20 °C (68 °F)
For Average Power: VSWR 1.0, Ambient temperature 40 °C (104 °F)
Inner Conductor temperature 100 °C (212 °F). No solar loading.
Maximum attenuation value shall be 105% of the nominal attenuation value.

SUPER FLEXIBLE RF CABLE
HRCAY-50-5

CONSTRUCTION MATERIALS	
Inner Conductor	Copper-Clad Aluminum Wire
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS	
Inner Conductor Diameter	1.90 mm
Dielectric Diameter	4.75 mm
Outer Conductor Diameter	6.35 mm
Diameter Over Jacket	7.50 mm

MECHANICAL SPECIFICATIONS	
Minimum Bending Radius	
Single Bending	12.5 mm
Repeated Bending	25.0 mm
Minimum Number of Bends	15
Tensile Strength	600 N (132 lb)

ENVIRONMENTAL SPECIFICATIONS	
Storage Temperature	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C

ELECTRICAL SPECIFICATIONS	
Capacitance	80.0 pF/m (24.4 pF/ft)
Impedance	50 ± 1 Ω
Velocity	83%
RF Peak Voltage	0.80 kV
Peak Power Rating	6.40 kW
Cut-off Frequency	20.40 GHz
Shielding Effectiveness>10MHz	>120 dB
Insulation Resistance	5000 MΩ•km
VSWR	
0.8~1.0 GHz	≤1.10
1.7~2.4 GHz	≤1.10

PERFORMANCE

Frequency	Attenuation		Average
MHz	dB/100 m	dB/100 ft	Power Rating (kW)
100	5.60	1.71	1.23
150	7.25	2.21	0.95
200	8.00	2.44	0.86
280	10.20	3.11	0.67
450	12.20	3.72	0.57
800	16.70	5.09	0.42
900	17.50	5.33	0.39
1000	18.60	5.67	0.37
1500	23.40	7.13	0.30
1800	25.70	7.83	0.27
2000	26.90	8.20	0.26
2200	28.50	8.69	0.25
2400	30.00	9.14	0.24
2500	30.60	9.33	0.23
3000	33.50	10.21	0.21
3400	38.20	11.64	0.18
4000	41.80	12.74	0.17
5000	47.50	14.48	0.15

Standard Conditions:
For Attenuation: VSWR 1.0, Cable temperature 20 °C (68 °F)
For Average Power: VSWR 1.0, Ambient temperature 40 °C (104 °F)
Inner Conductor temperature 100 °C (212 °F). No solar loading.
Maximum attenuation value shall be 105% of the nominal attenuation value.

SUPER FLEXIBLE RF CABLE
HRCAY-50-7

CONSTRUCTION MATERIALS	
Inner Conductor	Copper-Clad Aluminum Wire
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS	
Inner Conductor Diameter	2.60 mm
Dielectric Diameter	6.80 mm
Outer Conductor Diameter	9.10 mm
Diameter Over Jacket	10.20 mm

MECHANICAL SPECIFICATIONS	
Minimum Bending Radius	
Single Bending	12.5 mm
Repeated Bending	25.0 mm
Minimum Number of Bends	15
Tensile Strength	600 N (132 lb)

ENVIRONMENTAL SPECIFICATIONS	
Storage Temperature	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C

ELECTRICAL SPECIFICATIONS	
Capacitance	80.0 pF/m (24.4 pF/ft)
Impedance	50 ± 1 Ω
Velocity	83%
RF Peak Voltage	1.04 kV
Peak Power Rating	12 kW
Cut-off Frequency	13.40 GHz
Shielding Effectiveness>10MHz	>120 dB
Insulation Resistance	5000 MΩ•km
VSWR	
0.8~1.0 GHz	≤1.10
1.7~2.4 GHz	≤1.10

PERFORMANCE

Frequency	Attenuation		Average
MHz	dB/100 m	dB/100 ft	Power Rating (kW)
100	4.18	1.27	1.90
150	4.95	1.51	1.60
200	5.96	1.82	1.30
280	7.00	2.13	1.11
450	9.14	2.79	0.87
800	12.32	3.76	0.64
900	13.15	4.01	0.60
1000	13.85	4.22	0.57
1500	17.35	5.29	0.45
1800	19.20	5.85	0.41
2000	20.30	6.19	0.39
2200	21.40	6.52	0.37
2400	22.50	6.86	0.36
2500	23.00	7.01	0.35
3000	25.20	7.68	0.31
3400	26.60	8.11	0.29
4000	29.20	8.90	0.27
5000	33.30	10.15	0.23

Standard Conditions:
For Attenuation: VSWR 1.0, Cable temperature 20 °C (68 °F)
For Average Power: VSWR 1.0, Ambient temperature 40 °C (104 °F)
Inner Conductor temperature 100 °C (212 °F). No solar loading.
Maximum attenuation value shall be 105% of the nominal attenuation value.

SUPER FLEXIBLE RF CABLE
HRCAY-50-9

CONSTRUCTION MATERIALS	
Inner Conductor	Copper-Clad Aluminum Wire
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS	
Inner Conductor Diameter	3.60 mm
Dielectric Diameter	8.70 mm
Outer Conductor Diameter	12.00 mm
Diameter Over Jacket	13.30 mm

MECHANICAL SPECIFICATIONS	
Minimum Bending Radius	
Single Bending	15 mm
Repeated Bending	30 mm
Minimum Number of Bends	15
Tensile Strength	650 N (143 lb)

ENVIRONMENTAL SPECIFICATIONS	
Storage Temperature	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C

ELECTRICAL SPECIFICATIONS	
Capacitance	80.0 pF/m (24.4 pF/ft)
Impedance	50 ± 1 Ω
Velocity	83%
RF Peak Voltage	1.13 kV
Peak Power Rating	19 kW
Cut-off Frequency	12.50 GHz
Shielding Effectiveness>10MHz	>120 dB
Insulation Resistance	5000 MΩ•km
VSWR	
0.8~1.0 GHz	≤1.10
1.7~2.4 GHz	≤1.10

PERFORMANCE

Frequency	Attenuation		Average
MHz	dB/100 m	dB/100 ft	Power Rating (kW)
100	3.22	0.98	3.03
150	4.05	1.23	2.39
200	4.65	1.42	2.11
280	5.65	1.72	1.69
450	7.20	2.19	1.37
800	9.86	3.01	1.00
900	10.56	3.22	0.94
1000	11.15	3.40	0.88
1500	13.80	4.21	0.70
1800	15.55	4.74	0.63
2000	16.40	5.00	0.59
2200	17.35	5.29	0.56
2400	18.10	5.52	0.53
2500	18.50	5.64	0.52
3000	20.90	6.37	0.48

Standard Conditions:
For Attenuation: VSWR 1.0, Cable temperature 20 °C (68 °F)
For Average Power: VSWR 1.0, Ambient temperature 40 °C (104 °F)
Inner Conductor temperature 100 °C (212 °F). No solar loading.
Maximum attenuation value shall be 105% of the nominal attenuation value.

SUPER FLEXIBLE RF CABLE
HRCTY-50-21

CONSTRUCTION MATERIALS	
Inner Conductor	Helical Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS	
Inner Conductor Diameter	9.40 mm
Dielectric Diameter	22.80 mm
Outer Conductor Diameter	24.90 mm
Diameter Over Jacket	27.50 mm

MECHANICAL SPECIFICATIONS	
Minimum Bending Radius	
Single Bending	80 mm
Repeated Bending	125 mm
Minimum Number of Bends	15
Tensile Strength	1020 N (225 lb)

ENVIRONMENTAL SPECIFICATIONS	
Storage Temperature	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C

ELECTRICAL SPECIFICATIONS	
Capacitance	76.0 pF/m (23.2 pF/ft)
Impedance	50 ± 1 Ω
Velocity	88%
RF Peak Voltage	3.10 kV
Peak Power Rating	90 kW
Cut-off Frequency	4.90 GHz
Shielding Effectiveness>10MHz	>120 dB
Insulation Resistance	5000 MΩ•km
VSWR	
0.8~1.0 GHz	≤1.10
1.7~2.4 GHz	≤1.10

PERFORMANCE

Frequency	Attenuation		Average
MHz	dB/100 m	dB/100 ft	Power Rating (kW)
100	1.30	0.40	6.62
150	1.58	0.48	5.45
200	1.87	0.57	4.60
280	2.21	0.67	3.89
450	2.85	0.87	2.99
800	3.90	1.19	2.19
900	4.15	1.26	2.06
1000	4.42	1.35	1.93
1500	5.53	1.69	1.54
1800	6.12	1.87	1.39
2000	6.52	1.99	1.31
2200	6.90	2.10	1.24
2400	7.23	2.20	1.19
2500	7.65	2.33	1.16
3000	8.25	2.51	1.04

Standard Conditions:
For Attenuation: VSWR 1.0, Cable temperature 20 °C (68 °F)
For Average Power: VSWR 1.0, Ambient temperature 40 °C (104 °F)
Inner Conductor temperature 100 °C (212 °F). No solar loading.
Maximum attenuation value shall be 105% of the nominal attenuation value.

SUPER FLEXIBLE RF CABLE
HRCTY-50-31

CONSTRUCTION MATERIALS	
Inner Conductor	Helical Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS	
Inner Conductor Diameter	13.50 mm
Dielectric Diameter	33.00 mm
Outer Conductor Diameter	36.00 mm
Diameter Over Jacket	38.60 mm

MECHANICAL SPECIFICATIONS	
Minimum Bending Radius	
Single Bending	150 mm
Repeated Bending	300 mm
Minimum Number of Bends	15
Tensile Strength	2900 N (640 lb)

ENVIRONMENTAL SPECIFICATIONS	
Storage Temperature	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C

ELECTRICAL SPECIFICATIONS	
Capacitance	76.0 pF/m (23.2 pF/ft)
Impedance	50 ± 1 Ω
Velocity	88%
RF Peak Voltage	4.20 kV
Peak Power Rating	178 kW
Cut-off Frequency	3.40 GHz
Shielding Effectiveness>10MHz	>120 dB
Insulation Resistance	5000 MΩ•km
VSWR	
0.8~1.0 GHz	≤1.10
1.7~2.4 GHz	≤1.10

PERFORMANCE

Frequency	Attenuation		Average
MHz	dB/100 m	dB/100 ft	Power Rating (kW)
100	0.88	0.27	12.00
150	1.08	0.33	9.78
200	1.28	0.39	8.26
280	1.54	0.47	6.87
450	2.00	0.61	5.29
800	2.80	0.85	3.81
900	2.95	0.90	3.56
1000	3.15	0.96	3.35
1500	4.00	1.22	2.64
1800	4.50	1.37	2.36
2000	4.75	1.45	2.21
2200	5.05	1.54	2.09
2400	5.35	1.63	1.96
2500	5.50	1.68	1.90
3000	6.15	1.87	1.72

Standard Conditions:
For Attenuation: VSWR 1.0, Cable temperature 20 °C (68 °F)
For Average Power: VSWR 1.0, Ambient temperature 40 °C (104 °F)
Inner Conductor temperature 100 °C (212 °F). No solar loading.
Maximum attenuation value shall be 105% of the nominal attenuation value.

FLEXIBLE ALUMINUM CABLE

HCAAY-50-12 (1/2"L) | **HCTAY-50-22 (7/8"L)** | **HCTAY-50-23 (7/8"AL)** | **HCTAY-50-32 (1-1/4"L)** | **HHTAY-50-42 (1-5/8"L)**

CONSTRUCTION MATERIALS					
Inner Conductor	Copper-Clad Aluminum Wire	Smooth Copper Tube	Smooth Copper Tube	Smooth Copper Tube	Helical Copper Tube
Dielectric	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene
Outer Conductor	Corrugated Aluminum Tube	Corrugated Aluminum Tube	Corrugated Aluminum Tube	Corrugated Aluminum Tube	Corrugated Aluminum Tube
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant	Black PE or Low Smoke Halogen-free Fire-retardant	Black PE or Low Smoke Halogen-free Fire-retardant	Black PE or Low Smoke Halogen-free Fire-retardant	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS					
Inner Conductor Diameter	4.80 mm	9.00 mm	9.45 mm	13.00 mm	17.40 mm
Dielectric Diameter	12.30 mm	22.30 mm	22.80 mm	33.00 mm	42.80 mm
Outer Conductor Diameter	13.90 mm	24.90 mm	25.40 mm	36.00 mm	46.50 mm
Diameter Over Jacket	15.70 mm	27.50 mm	27.80 mm	38.60 mm	49.50 mm

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS					
Minimum Bending Radius	50 mm	130 mm	120 mm	150 mm	200 mm
Repeated Bending Radius	125 mm	250 mm	250 mm	380 mm	510 mm
Minimum Number of bending	15	15	15	15	15
Tensile Strength	1000 N	1350 N	1350 N	2500 N	3000 N
Storage Temperature	-55 °C ~ +85 °C	-55 °C ~ +85 °C	-55 °C ~ +85 °C	-55 °C ~ +85 °C	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C	-40 °C ~ +60 °C	-40 °C ~ +60 °C	-40 °C ~ +60 °C	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C	-55 °C ~ +85 °C	-55 °C ~ +85 °C	-55 °C ~ +85 °C	-55 °C ~ +85 °C

	HCAAY-50-12 (1/2"L)	HCTAY-50-22 (7/8"L)	HCTAY-50-23 (7/8"AL)	HCTAY-50-32 (1-1/4"L)	HHTAY-50-42 (1-5/8"L)
ELECTRICAL SPECIFICATIONS					
Capacitance	76 pF/m(23.2 pF/ft)	75 pF/m(22.9 pF/ft)	74 pF/m(22.6 pF/ft)	76 pF/m(23.2 pF/ft)	76 pF/m(23.2 pF/ft)
Impedance	50 ± 1 Ω	50 ± 1 Ω	50 ± 1 Ω	50 ± 1 Ω	50 ± 1 Ω
Velocity	88%	88%	89%	88%	88%
RF Peak Power	1.60 kV	3.00 kV	3.00 kV	4.00 kV	5.70 kV
Peak Power Raiting	36 kW	82 kW	80 kW	185 kW	290 kW
Cut-off Frequency	8.80 GHz	5.20 GHz	5.10 GHz	3.70 GHz	2.80 GHz
Shielding Effiectiveness >10MHz	>120 dB	>120 dB	>120 dB	>120 dB	>120 dB
Insulation Resistance	5000 MΩ•km	5000 MΩ•km	5000 MΩ•km	5000 MΩ•km	5000 MΩ•km
VSWR					
0.8~1.0 GHz	≤1.15	≤1.15	≤1.15	≤1.15	≤1.15
1.7~2.4 GHz	≤1.15	≤1.15	≤1.15	≤1.15	≤1.15

PERFORMANCE

ATTENUATION 20°C dB/100m(dB/100ft)					
100 MHz	2.40(0.73)	1.25(0.38)	1.22(0.37)	0.90(0.27)	0.76(0.23)
200 MHz	3.45(1.05)	1.80(0.55)	1.75(0.53)	1.31(0.40)	1.09(0.33)
450 MHz	5.25(1.60)	2.77(0.84)	2.73(0.83)	2.04(0.62)	1.72(0.52)
800 MHz	7.15(2.18)	3.83(1.17)	3.69(1.12)	2.83(0.86)	2.40(0.73)
900 MHz	7.65(2.33)	4.08(1.24)	3.88(1.18)	3.02(0.92)	2.58(0.79)
1000 MHz	8.10(2.47)	4.30(1.31)	4.12(1.26)	3.21(0.98)	2.74(0.84)
1500 MHz	10.10(3.08)	5.45(1.66)	5.19(1.58)	4.07(1.24)	3.50(1.07)
1800 MHz	11.15(3.40)	6.05(1.84)	5.78(1.76)	4.53(1.38)	3.94(1.20)
2000 MHz	11.85(3.61)	6.45(1.97)	6.10(1.86)	4.83(1.47)	4.20(1.28)
2200 MHz	12.50(3.81)	6.85(2.09)	6.52(1.99)	5.10(1.55)	4.46(1.36)
2400 MHz	13.05(3.98)	7.15(2.18)	7.16(2.18)	5.37(1.64)	4.74(1.44)
2500 MHz	13.40(4.08)	7.35(2.24)	7.26(2.21)	5.51(1.68)	4.86(1.48)
3000 MHz	14.80(4.51)	8.20(2.50)	7.69(2.34)	6.19(1.89)	–

AVERAGE POWER RATING kW					
100 MHz	3.58	6.50	6.24	7.60	15.55
200 MHz	2.50	4.50	4.34	5.24	10.27
450 MHz	1.64	3.00	2.83	3.35	6.46
800 MHz	1.21	2.20	2.07	2.45	4.62
900 MHz	1.14	2.10	1.93	2.26	4.30
1000 MHz	1.07	2.00	1.83	2.12	4.05
1500 MHz	0.86	1.70	1.45	1.70	3.17
1800 MHz	0.78	1.60	1.28	1.52	2.83
2000 MHz	0.74	1.50	1.23	1.40	2.65
2200 MHz	0.70	1.40	1.18	1.33	2.49
2400 MHz	0.68	1.30	1.09	1.26	2.34
2500 MHz	0.66	1.20	1.05	1.23	2.28
3000 MHz	0.59	1.10	0.98	1.09	–

Standard Conditions:

For Attenuation: VSWR 1.0, Cable temperature 20 °C (68 °F)
For Average Power: VSWR 1.0, Ambient temperature 40 °C (104 °F)
Inner Conductor temperature 100 °C (212 °F). No solar loading.
Maximum attenuation value shall be 105% of the nominal attenuation value.

LEAKY RF CABLE

HLCAY(Z)-50-8 (3/8")

HLCAY(Z)-50-12 (1/2")

HLCAY(Z)(R)-50-12 (1/2")

GENERAL SPECIFICATIONS			
Nominal Size	3/8"	1/2"	1/2"
Cable Type	Coupling Type	Coupling Type	Radiating Type

CONSTRUCTION MATERIALS			
Inner Conductor	Copper-Clad Aluminum Wire	Copper-Clad Aluminum Wire	Copper-Clad Aluminum Wire
Dielectric	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube and Slot	Corrugated Copper Tube and Slot	Overlapping Copper Foil
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant	Black PE or Low Smoke Halogen-free Fire-retardant	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS			
Inner Conductor Diameter	3.10 mm	4.80 mm	4.80 mm
Dielectric Diameter	8.35 mm	12.30 mm	12.30 mm
Outer Conductor Diameter	9.50 mm	13.80 mm	12.60 mm
Diameter Over Jacket	11.20 mm	15.70 mm	15.50 mm

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS			
Minimum Bending Radius	40 mm	50 mm	125 mm
Repeated Bending Radius	250 mm	350 mm	350 mm
Minimum Distance to Wall	50 mm	50 mm	50 mm
Tensile Strength	450 N	1000 N	1000 N
Storage Temperature	-55 °C ~ +85 °C	-55 °C ~ +85 °C	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C	-40 °C ~ +60 °C	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C	-55 °C ~ +85 °C	-55 °C ~ +85 °C

	HLCAY(Z)-50-8 (3/8″)	HLCAY(Z)-50-12 (1/2″)	HLCAY(Z)(R)-50-12 (1/2″)
ELECTRICAL SPECIFICATIONS			
Capacitance	76 pF/m	76 pF/m	75 pF/m
Impedance	50 ± 2 Ω	50 ± 1 Ω	50 ± 2 Ω
Velocity	88%	88%	88%
Insulation Resistance	>5000 MΩ•km	>5000 MΩ•km	>5000 MΩ•km
Jacket Spark	5 kV	8 kV	8 kV
Insulation Voltage	2.5 kV	6.0 kV	6.0 kV
Inner Conductor DC Resistance	3.10 Ω/km	1.48 Ω/km	1.48 Ω/km
Outer Conductor DC Resistance	3.10 Ω/km	2.10 Ω/km	3.40 Ω/km
Stop Bands	–	–	At approximately 650 MHz and its multiples
VSWR			
0.3 ~ 0.5 GHz	≤1.15	≤1.15	≤1.20
0.8 ~ 1.0 GHz	≤1.15	≤1.15	≤1.20
1.7 ~ 2.0 GHz	≤1.20	≤1.20	–
2.0 ~ 2.4 GHz	–	≤1.20	–

PERFORMANCE

ATTENUATION 20˚C (dB/100m)			
75 MHz	3.30	2.00	–
150 MHz	4.50	2.90	3.30
450 MHz	7.50	5.30	5.90
800 MHz	10.50	7.30	8.40
900 MHz	11.00	7.90	9.10
1800 MHz	15.80	12.00	–
2200 MHz	–	13.50	–
2400 MHz	–	14.10	–

COUPLING LOSS (2m) (50%/95%)			
75 MHz	58 dB / 69 dB	67 dB / 77 dB	–
150 MHz	60 dB / 70 dB	69 dB / 78 dB	62 dB / 70 dB
450 MHz	61 dB / 72 dB	68 dB / 78 dB	65 dB / 70 dB
800 MHz	65 dB / 75 dB	70 dB / 80 dB	64 dB / 70 dB
900 MHz	68 dB / 78 dB	70 dB / 80 dB	63 dB / 70 dB
1800 MHz	74 dB / 85 dB	77 dB / 86 dB	–
2200 MHz	–	78 dB / 87 dB	–
2400 MHz	–	78 dB / 87 dB	–

LEAKY RF CABLE

HLCTY(Z)-50-22 (7/8")

HLCTY(Z)(R)-50-22 (7/8")

HLCTY(Z)(R)-50-22 (7/8")

HLCTY(Z)(R)-50-22 (7/8")

GENERAL SPECIFICATIONS				
Nominal Size	7/8"	7/8"	7/8"	7/8"
Cable Type	Coupling Type	Radiating A Type	Radiating C Type	Radiating D Type

CONSTRUCTION MATERIALS				
Inner Conductor	Smooth Copper Tube	Smooth Copper Tube	Smooth Copper Tube	Smooth Copper Tube
Dielectric	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube and Slot	Overlapping Copper Foil	Overlapping Copper Foil	Overlapping Copper Foil
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant	Black PE or Low Smoke Halogen-free Fire-retardant	Black PE or Low Smoke Halogen-free Fire-retardant	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS				
Inner Conductor Diameter	9.00 mm	9.00 mm	9.00 mm	9.00 mm
Dielectric Diameter	22.30 mm	22.50 mm	22.50 mm	22.50 mm
Outer Conductor Diameter	24.90 mm	22.80 mm	22.80 mm	22.80 mm
Diameter Over Jacket	27.50 mm	27.20 mm	27.20 mm	27.20 mm

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS				
Minimum Bending Radius	90 mm	250 mm	250 mm	250 mm
Repeated Bending Radius	500 mm	500 mm	500 mm	500 mm
Minimum Distance to Wall	50 mm	50 mm	50 mm	50 mm
Tensile Strength	1470 N	1470 N	1470 N	1470 N
Storage Temperature	-55 °C ~ +85 °C	-55 °C ~ +85 °C	-55 °C ~ +85 °C	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C	-40 °C ~ +60 °C	-40 °C ~ +60 °C	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C	-55 °C ~ +85 °C	-55 °C ~ +85 °C	-55 °C ~ +85 °C

	HLCTY(Z)-50-22 (7/8″)	HLCTY(Z)(R)-50-22 (7/8″)	HLCTY(Z)(R)-50-22 (7/8″)	HLCTY(Z)(R)-50-22 (7/8″)
ELECTRICAL SPECIFICATIONS				
Capacitance	76 pF/m	75 pF/m	75 pF/m	75 pF/m
Impedance	50 ± 1 Ω	50 ± 2 Ω	50 ± 2 Ω	50 ± 2 Ω
Velocity	88%	89%	89%	89%
Insulation Resistance	>5000 MΩ•km	>5000 MΩ•km	>5000 MΩ•km	>5000 MΩ•km
Jacket Spark	8 kV	8 kV	8 kV	8 kV
Insulation Voltage	10 kV	10 kV	10 kV	10 kV
Inner Conductor DC Resistance	1.20 Ω/km	1.20 Ω/km	1.20 Ω/km	1.20 Ω/km
Outer Conductor DC Resistance	1.40 Ω/km	2.80 Ω/km	2.80 Ω/km	2.80 Ω/km
Stop Bands	–	At approximately 650 MHz and its multiples	At approximately 1030 MHz and its multiples	At approximately 650 MHz and its multiples
VSWR				
0.3 ~ 0.5 GHz	≤1.15	≤1.20	–	≤1.20
0.8 ~ 1.0 GHz	≤1.15	≤1.20	≤1.20	≤1.20
1.7 ~ 2.0 GHz	≤1.20	–	≤1.20	–
2.0 ~ 2.4 GHz	≤1.20	–	≤1.20	–

PERFORMANCE

ATTENUATION 20°C (dB/100m)				
75 MHz	1.20	1.20	–	–
150 MHz	1.70	1.80	–	1.70
450 MHz	3.10	3.30	–	3.30
800 MHz	4.30	5.10	4.60	5.10
900 MHz	4.60	5.50	4.70	5.30
1800 MHz	6.90	–	6.30	–
2200 MHz	7.80	–	10.50	–
2400 MHz	8.60	–	13.00	–

COUPLING LOSS (2m) (50%/95%)				
75 MHz	62 dB / 72 dB	60 dB / 68 dB	–	–
150 MHz	65 dB / 75 dB	70 dB / 78 dB	–	68 dB / 80 dB
450 MHz	71 dB / 81dB	69 dB / 80 dB	–	69 dB / 78 dB
800 MHz	75 dB / 85 dB	67 dB / 72 dB	69 dB / 77 dB	64 dB / 74 dB
900 MHz	77 dB / 87 dB	64 dB / 71 dB	66 dB / 73 dB	63 dB / 73 dB
1800 MHz	80 dB / 89 dB	–	62 dB / 70 dB	–
2200 MHz	80 dB / 88 dB	–	61 dB / 69 dB	–
2400 MHz	80 dB / 89 dB	–	60 dB / 68 dB	–

LEAKY RF CABLE

HLCTY(Z)-50-32 (1-1/4")

HLCTY(Z)(R)-50-32 (1-1/4")

HLCTY(Z)(R)-50-32 (1-1/4")

HLCTY(Z)(R)-50-32 (1-1/4")

HLCTY(Z)(R)-50-32 (1-1/4")

GENERAL SPECIFICATIONS					
Nominal Size	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
Cable Type	Coupling Type	Radiating A Type	Radiating B Type	Radiating C Type	Radiating D Type

CONSTRUCTION MATERIALS					
Inner Conductor	Smooth Copper Tube	Smooth Copper Tube	Smooth Copper Tube	Smooth Copper Tube	Smooth Copper Tube
Dielectric	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube and Slot	Overlapping Copper Foil	Overlapping Copper Foil	Overlapping Copper Foil	Overlapping Copper Foil
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant	Black PE or Low Smoke Halogen-free Fire-retardant	Black PE or Low Smoke Halogen-free Fire-retardant	Black PE or Low Smoke Halogen-free Fire-retardant	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS					
Inner Conductor Diameter	13.00 mm	13.00 mm	13.00 mm	13.00 mm	13.00 mm
Dielectric Diameter	32.50 mm	32.80 mm	32.80 mm	32.80 mm	32.80 mm
Outer Conductor Diameter	35.80 mm	33.60 mm	33.60 mm	33.60 mm	33.60 mm
Diameter Over Jacket	38.60 mm	38.20 mm	38.20 mm	38.20 mm	38.20 mm

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS					
Minimum Bending Radius	150 mm	400 mm	400 mm	400 mm	400 mm
Repeated Bending Radius	700 mm	800 mm	800 mm	800 mm	800 mm
Minimum Distance to wall	50 mm	50 mm	50 mm	50 mm	50 mm
Tensile Strength	2900 N	2900 N	2900 N	2900 N	2900 N
Storage Temperature	-55 ˚C ~ +85 ˚C	-55 ˚C ~ +85 ˚C	-55 ˚C ~ +85 ˚C	-55 ˚C ~ +85 ˚C	-55 ˚C ~ +85 ˚C
Installation Temperature	-40 ˚C ~ +60 ˚C	-40 ˚C ~ +60 ˚C	-40 ˚C ~ +60 ˚C	-40 ˚C ~ +60 ˚C	-40 ˚C ~ +60 ˚C
Operation Temperature	-55 ˚C ~ +85 ˚C	-55 ˚C ~ +85 ˚C	-55 ˚C ~ +85 ˚C	-55 ˚C ~ +85 ˚C	-55 ˚C ~ +85 ˚C

	HLCTY(Z)-50-32 (1-1/4″)	HLCTY(Z)(R)-50-32 (1-1/4″)	HLCTY(Z)(R)-50-32 (1-1/4″)	HLCTY(Z)(R)-50-32 (1-1/4″)	HLCTY(Z)(R)-50-32 (1-1/4″)
ELECTRICAL SPECIFICATIONS					
Capacitance	76 pF/m	75 pF/m	75 pF/m	75 pF/m	75 pF/m
Impedance	50 ± 1 Ω	50 ± 2 Ω	50 ± 2 Ω	50 ± 2 Ω	50 ± 2 Ω
Velocity	89%	89%	89%	89%	89%
Insulation Resistance	>5000 MΩ•km	>5000 MΩ•km	>5000 MΩ•km	>5000 MΩ•km	>5000 MΩ•km
Jacket Spark	10 kV	10 kV	10 kV	10 kV	10 kV
Insulation Voltage	10 kV	10 kV	10 kV	10 kV	10 kV
Inner Conductor DC Resistance	0.70 Ω/km	0.70 Ω/km	0.70 Ω/km	0.70 Ω/km	0.70 Ω/km
Outer Conductor DC Resistance	0.70 Ω/km	1.70 Ω/km	1.70 Ω/km	1.70 Ω/km	1.70 Ω/km
Stop Bands	–	At approximately 640 MHz and its multiples	At approximately 1270 MHz and its multiples	At approximately 1030 MHz and its multiples	At approximately 650 MHz and its multiples
VSWR					
0.3~0.5 GHz	≤1.15	≤1.20	–	–	≤1.20
0.8~1.0 GHz	≤1.15	≤1.20	≤1.20	≤1.20	≤1.20
1.7~2.0 GHz	≤1.20	–	≤1.20	≤1.20	–
2.0~2.4 GHz	≤1.20	–	≤1.20	≤1.20	–

PERFORMANCE

ATTENUATION 20°C (dB/100m)					
75 MHz	0.80	1.00	–	–	–
150 MHz	1.10	1.35	–	–	–
450 MHz	2.50	2.30	–	–	2.20
800 MHz	3.30	4.00	2.90	2.80	3.00
900 MHz	3.50	4.35	3.00	3.10	3.40
1800 MHz	5.00	–	6.00	5.60	–
2200 MHz	5.90	–	–	8.50	–
2400 MHz	6.50	–	7.60	9.60	–

COUPLING LOSS (2m) (50%/95%)					
75 MHz	61 dB / 71 dB	63 dB / 69 dB	–	–	–
150 MHz	64 dB / 74 dB	67 dB / 77dB	–	–	–
450 MHz	75 dB / 85 dB	69 dB / 79 dB	–	–	69 dB / 79 dB
800 MHz	76 dB / 86 dB	61 dB / 72 dB	68 dB / 75 dB	68 dB / 75 dB	61 dB / 72 dB
900 MHz	76 dB / 86 dB	62 dB / 68 dB	67 dB / 73 dB	66 dB / 73 dB	62 dB / 68 dB
1800 MHz	77 dB / 87 dB	–	60 dB / 67 dB	62 dB / 67 dB	–
2200 MHz	77 dB / 87 dB	–	–	61 dB / 68 dB	–
2400 MHz	78 dB / 88 dB	–	61 dB / 69 dB	62 dB / 67 dB	–

LEAKY RF CABLE

HLHTY(Z)-50-42 (1-5/8")

HLHTY(Z)(R)-50-42 (1-5/8")

HLHTY(Z)(R)-50-42 (1-5/8")

HLHTY(Z)(R)-50-42 (1-5/8")

GENERAL SPECIFICATIONS				
Nominal Size	1-5/8"	1-5/8"	1-5/8"	1-5/8"
Cable Type	Coupling Type	Radiating A Type	Radiating C Type	Radiating D Type

CONSTRUCTION MATERIALS				
Inner Conductor	Helical Copper Tube	Helical Copper Tube	Helical Copper Tube	Helical Copper Tube
Dielectric	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube and Slot	Overlapping Copper Foil	Overlapping Copper Foil	Overlapping Copper Foil
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant	Black PE or Low Smoke Halogen-free Fire-retardant	Black PE or Low Smoke Halogen-free Fire-retardant	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS				
Inner Conductor Diameter	17.40 mm	17.40 mm	17.40 mm	17.40 mm
Dielectric Diameter	42.80 mm	43.00 mm	43.00 mm	43.00 mm
Outer Conductor Diameter	46.50 mm	43.80 mm	43.80 mm	43.80 mm
Diameter Over Jacket	49.50 mm	48.30 mm	48.30 mm	48.30 mm

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS				
Minimum Bending Radius	510 mm	510 mm	510 mm	510 mm
Repeated Bending Radius	900 mm	900 mm	900 mm	900 mm
Minimum Distance to Wall	50 mm	50 mm	50 mm	50 mm
Tensile Strength	3300 N	3300 N	3300 N	3300 N
Storage Temperature	-55 °C ~ +85 °C	-55 °C ~ +85 °C	-55 °C ~ +85 °C	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C	-40 °C ~ +60 °C	-40 °C ~ +60 °C	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C	-55 °C ~ +85 °C	-55 °C ~ +85 °C	-55 °C ~ +85 °C

	HLHTY(Z)-50-42 (1-5/8″)	HLHTY(Z)(R)-50-42 (1-5/8″)	HLHTY(Z)(R)-50-42 (1-5/8″)	HLHTY(Z)(R)-50-42 (1-5/8″)
ELECTRICAL SPECIFICATIONS				
Capacitance	76 pF/m	75 pF/m	75 pF/m	75 pF/m
Impedance	50 ± 1 Ω	50 ± 2 Ω	50 ± 2 Ω	50 ± 2 Ω
Velocity	88%	88%	88%	88%
Insulation Resistance	>5000 MΩ•km	>5000 MΩ•km	>5000 MΩ•km	>5000 MΩ•km
Jacket Spark	10 kV	10 kV	10 kV	10 kV
Insulation Voltage	15 kV	15 kV	15 kV	15 kV
Inner Conductor DC Resistance	0.85 Ω/km	0.85 Ω/km	0.85 Ω/km	0.85 Ω/km
Outer Conductor DC Resistance	0.60 Ω/km	1.00 Ω/km	1.00 Ω/km	1.00 Ω/km
Stop Bands	–	At approximately 660 MHz and its multiples	At approximately 1030 MHz and its multiples	At approximately 660 MHz and its multiples
VSWR				
0.3 ~ 0.5 GHz	≤1.15	≤1.20	–	≤1.20
0.8 ~ 1.0 GHz	≤1.15	≤1.20	≤1.20	≤1.20
1.7 ~ 2.0 GHz	≤1.20	–	≤1.20	–
2.0 ~ 2.4 GHz	≤1.20	–	≤1.20	–

PERFORMANCE

ATTENUATION 20°C (dB/100m)				
75 MHz	0.60	0.83	–	–
150 MHz	0.80	0.95	–	0.88
450 MHz	1.90	1.90	–	1.70
800 MHz	2.60	2.80	2.40	2.60
900 MHz	2.70	3.20	2.50	2.70
1800 MHz	4.40	–	5.60	–
2200 MHz	5.10	–	5.50	–
2400 MHz	5.50	–	5.60	–

COUPLING LOSS (2m) (50%/95%)				
75 MHz	68 dB / 78 dB	–	–	–
150 MHz	71 dB / 81 dB	71 dB / 80 dB	–	73 dB / 84 dB
450 MHz	75 dB / 85 dB	70 dB / 79 dB	–	75 dB / 86 dB
800 MHz	75 dB / 85 dB	65 dB / 73 dB	65 dB / 67 dB	73 dB / 83 dB
900 MHz	75 dB / 84 dB	63 dB / 72 dB	62 dB / 65 dB	70 dB / 81 dB
1800 MHz	77 dB / 86 dB	–	60 dB / 63 dB	–
2200 MHz	77 dB / 86 dB	–	62 dB / 64 dB	–
2400 MHz	77 dB / 86 dB	–	65 dB / 67 dB	–

HF SERIES CABLE

HF100 **HF195** **HF200** **HF240**

CONSTRUCTION MATERIALS				
Inner Conductor	Solid Bare Copper or Copper Clad Steel	Solid Bare Copper or Copper Clad Steel	Solid Bare Copper or Copper Clad Steel	Solid Bare Copper or Copper Clad Aluminum
Dielectric	Solid Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene
First Shield	Bonded Aluminum/ Polyester/Aluminum Tape	Bonded Aluminum/ Polyester/Aluminum Tape	Bonded Aluminum/ Polyester/Aluminum Tape	Bonded Aluminum/ Polyester/Aluminum Tape
Outer Conductor	Tinned Copper	Tinned Copper	Tinned Copper	Tinned Copper
Jacket	Black PVC / Polyethylene	Black PVC / Polyethylene	Black PVC / Polyethylene	Black PVC / Polyethylene

PHYSICAL DIMENSIONS				
Inner Conductor Diameter	0.46 mm (0.018 in)	0.94 mm (0.037 in)	1.12 mm (0.044 in)	1.42 mm (0.056 in)
Dielectric Diameter	1.52 mm (0.060 in)	2.79 mm (0.110 in)	2.95 mm (0.116 in)	3.81 mm (0.150 in)
First Shield Diameter	1.65 mm (0.065 in)	2.95 mm (0.116 in)	3.07 mm (0.121 in)	3.94 mm (0.155 in)
Outer Conductor Diameter	1.95 mm (0.077 in)	3.30 mm (0.130 in)	3.50 mm (0.138 in)	4.50 mm (0.177 in)
Diameter Over Jacket	2.79 mm (0.110 in)	4.95 mm (0.195 in)	4.95 mm (0.195 in)	6.10 mm (0.240 in)

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS				
Minimum Bending Radius	14 mm	25 mm	25 mm	30 mm
Installation Temperature Range	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C
Storage Temperature Range	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C
Operating Temperature Range	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C

	HF100	HF195	HF200	HF240
ELECTRICAL SPECIFICATIONS				
Capacitance	101.1 pF/m	79.7 pF/m	80.4 pF/m	79.4 pF/m
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
Velocity	66%	80%	83%	84%
Voltage	0.5 kV	1.0 kV	1.0 kV	1.5 kV
Inner Conductor DC Resistance	266.00 Ω/km	24.94 Ω/km	17.59 Ω/km	10.50 Ω/km
Outer Conductor DC Resistance	31.20 Ω/km	16.08 Ω/km	16.08 Ω/km	12.76 Ω/km
Jacket Spark	2.0 kV	3.0 kV	3.0 kV	5.0 kV
Shielding Effectiveness	>90 dB	>90 dB	>90 dB	>90 dB
Insulation Resistance	>1×10⁴ MΩ•km	>1×10⁴ MΩ•km	>1×10⁴ MΩ•km	>1×10⁴ MΩ•km
Cutoff Frequency	90 GHz	41 GHz	39 GHz	31 GHz
Peak Power	0.6 kW	2.5 kW	2.5 kW	5.6 kW
VSWR (Return Loss)				
5 ~ 3000 MHz	≤1.20 (≥20 dB)	≤1.20 (≥20 dB)	≤1.20 (≥20 dB)	≤1.20 (≥20 dB)
800 ~ 1000 MHz	≤1.10 (≥26 dB)	≤1.10 (≥26 dB)	≤1.10 (≥26 dB)	≤1.10 (≥26 dB)
1700 ~ 2000 MHz	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)
2000 ~ 2400 MHz	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)

PERFORMANCE

ATTENUATION dB/100m (dB/100ft)				
30 MHz	12.90 (3.93)	6.50 (1.98)	5.80 (1.77)	4.40 (1.34)
50 MHz	16.70 (5.09)	8.40 (2.56)	7.50 (2.29)	5.70 (1.74)
150 MHz	29.40 (8.96)	14.60 (4.45)	13.10 (3.99)	9.90 (3.02)
220 MHz	35.80 (10.91)	17.70 (5.39)	15.90 (4.85)	12.00 (3.66)
450 MHz	51.90 (15.82)	25.50 (7.77)	22.80 (6.95)	17.30 (5.27)
900 MHz	74.90 (22.83)	36.50 (11.13)	32.60 (9.94)	24.80 (7.56)
1500 MHz	98.70 (30.08)	47.70 (14.54)	42.40 (12.92)	32.40 (9.88)
1800 MHz	109.00 (33.22)	52.50 (16.00)	46.60 (14.20)	35.60 (10.85)
2000 MHz	115.50 (35.20)	55.40 (16.89)	49.30 (15.03)	37.70 (11.49)
2500 MHz	130.60 (39.81)	62.40 (19.02)	55.40 (16.89)	42.40 (12.92)
3000 MHz	143.80 (43.83)	67.50 (20.57)	60.20 (18.35)	46.50 (14.17)
5800 MHz	210.30 (64.10)	93.00 (28.35)	86.50 (26.37)	66.80 (20.36)

AVERAGE POWER RATING (kW)				
30 MHz	0.230	0.780	0.910	1.300
50 MHz	0.178	0.604	0.704	1.004
150 MHz	0.101	0.347	0.403	0.578
220 MHz	0.083	0.286	0.332	0.477
450 MHz	0.057	0.199	0.231	0.331
900 MHz	0.040	0.139	0.162	0.231
1500 MHz	0.030	0.106	0.124	0.177
1800 MHz	0.027	0.097	0.113	0.161
2000 MHz	0.026	0.092	0.107	0.152
2500 MHz	0.023	0.081	0.095	0.135
3000 MHz	0.021	0.075	0.088	0.123
5800 MHz	0.014	0.055	0.061	0.086

HF SERIES CABLE

HF300

HF400

HF500

HF600

CONSTRUCTION MATERIALS				
Inner Conductor	Solid Bare Copper or Copper Clad Aluminum	Solid Bare Copper or Copper Clad Aluminum	Solid Bare Copper or Copper Clad Aluminum	Solid Bare Copper or Copper Clad Aluminum
Dielectric	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene
First Shield	Bonded Aluminum/ Polyester/Aluminum Tape	Bonded Aluminum/ Polyester/Aluminum Tape	Bonded Aluminum/ Polyester/Aluminum Tape	Bonded Aluminum/ Polyester/Aluminum Tape
Outer Conductor	Tinned Copper	Tinned Copper	Tinned Copper	Tinned Copper
Jacket	Black PVC / Polyethylene	Black PVC / Polyethylene	Black PVC / Polyethylene	Black PVC / Polyethylene

PHYSICAL DIMENSIONS				
Inner Conductor Diameter	1.78 mm (0.070 in)	2.74 mm (0.108 in)	3.61 mm (0.142 in)	4.47 mm (0.176 in)
Dielectric Diameter	4.83 mm (0.190 in)	7.24 mm (0.285 in)	9.40 mm (0.370 in)	11.56 mm (0.455 in)
First Shield Diameter	4.98 mm (0.196 in)	7.39 mm (0.291 in)	9.55 mm (0.376 in)	11.71 mm (0.461 in)
Outer Conductor Diameter	5.55 mm (0.219 in)	8.00 mm (0.315 in)	10.30 mm (0.406 in)	12.50 mm (0.492 in)
Diameter Over Jacket	7.62 mm (0.300 in)	10.29 mm (0.405 in)	12.70 mm (0.500 in)	14.99 mm (0.590 in)

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS				
Minimum Bending Radius	38 mm	51 mm	64 mm	75 mm
Installation Temperature Range	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C
Storage Temperature Range	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C
Operating Temperature Range	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C

	HF300	HF400	HF500	HF600
ELECTRICAL SPECIFICATIONS				
Capacitance	78.8 pF/m	77.1 pF/m	77.1 pF/m	76.8 pF/m
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
Velocity	85%	85%	86%	87%
Voltage	2.0 kV	2.5 kV	3.0 kV	4.0 kV
Inner Conductor DC Resistance	6.96 Ω/km	2.92 Ω/km	1.68 Ω/km	1.09 Ω/km
Outer Conductor DC Resistance	7.25 Ω/km	5.41 Ω/km	4.17 Ω/km	3.94 Ω/km
Jacket Spark	5.0 kV	8.0 kV	8.0 kV	8.0 kV
Shielding Effectiveness	>90 dB	>90 dB	>90 dB	>90 dB
Insulation Resistance	$>1\times10^4$ MΩ•km	$>1\times10^4$ MΩ•km	$>1\times10^4$ MΩ•km	$>1\times10^4$ MΩ•km
Cutoff Frequency	24.5 GHz	16.2 GHz	12.6 GHz	10.3 GHz
Peak Power	10.0 kW	16.0 kW	22.0 kW	40.0 kW
VSWR (Return Loss)				
5 ~ 3000 MHz	≤1.20 (≥20 dB)	≤1.20 (≥20 dB)	≤1.20 (≥20 dB)	≤1.20 (≥20 dB)
800 ~ 1000 MHz	≤1.10 (≥26 dB)	≤1.10 (≥26 dB)	≤1.10 (≥26 dB)	≤1.10 (≥26 dB)
1700 ~ 2000 MHz	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)
2000 ~ 2400 MHz	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)

PERFORMANCE

ATTENUATION dB/100m (dB/100ft)				
30 MHz	3.50 (1.07)	2.20 (0.67)	1.80 (0.55)	1.40 (0.43)
50 MHz	4.50 (1.37)	2.90 (0.88)	2.30 (0.70)	1.80 (0.55)
150 MHz	7.90 (2.41)	5.00 (1.52)	4.00 (1.22)	3.20 (0.98)
220 MHz	9.60 (2.93)	6.10 (1.86)	4.90 (1.49)	3.90 (1.19)
450 MHz	13.80 (4.21)	8.90 (2.71)	7.10 (2.16)	5.60 (1.71)
900 MHz	19.90 (6.07)	12.80 (3.90)	10.30 (3.14)	8.20 (2.50)
1500 MHz	26.00 (7.92)	16.80 (5.12)	13.60 (4.15)	10.90 (3.32)
1800 MHz	28.70 (8.75)	18.60 (5.67)	15.00 (4.57)	12.10 (3.69)
2000 MHz	30.30 (9.24)	19.60 (5.97)	15.90 (4.85)	12.80 (3.90)
2500 MHz	34.20 (10.42)	22.20 (6.77)	18.00 (5.49)	14.50 (4.42)
3000 MHz	37.50 (11.43)	24.80 (7.56)	19.70 (6.00)	15.70 (4.79)
5800 MHz	54.30 (16.55)	35.50 (10.82)	29.10 (8.87)	23.80 (7.25)

AVERAGE POWER RATING (kW)				
30 MHz	1.780	2.910	2.720	4.930
50 MHz	1.384	2.208	2.129	3.834
150 MHz	0.789	1.280	1.224	2.157
220 MHz	0.649	1.050	0.999	1.770
450 MHz	0.451	0.719	0.690	1.233
900 MHz	0.313	0.500	0.475	0.842
1500 MHz	0.240	0.381	0.360	0.633
1800 MHz	0.217	0.344	0.326	0.570
2000 MHz	0.206	0.327	0.308	0.539
2500 MHz	0.182	0.288	0.272	0.476
3000 MHz	0.166	0.258	0.249	0.440
5800 MHz	0.115	0.180	0.168	0.290

50 OHM HIGH FREQUENCY SERIES CABLE

3D–FB

5D–FB

7D–FB

CONSTRUCTION MATERIALS			
Inner Conductor	Solid Bare Copper or Copper Clad Steel	Solid Bare Copper or Copper Clad Alumimun	Solid Bare Copper or Copper Clad Aluminum
Dielectric	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene
First Shield	Bonded Aluminum/ Polyester/ Aluminum Tape	Bonded Aluminum/ Polyester/ Aluminum Tape	Bonded Aluminum/ Polyester/ Aluminum Tape
Outer Conductor	Tinned Copper	Tinned Copper	Tinned Copper
Jacket	Black PVC or Polyethylene	Black PVC or Polyethylene	Black PVC or Polyethylene

PHYSICAL DIMENSIONS			
Inner Conductor Diameter	1.07 mm (0.042 in)	1.80 mm (0.071 in)	2.60 mm (0.102 in)
Dielectric Diameter	3.00 mm (0.118 in)	5.00 mm (0.197 in)	7.30 mm (0.287 in)
First Shield Diameter	3.20 mm (0.126 in)	5.20 mm (0.205 in)	7.50 mm (0.295 in)
Outer Conductor Diameter	3.55 mm (0.140 in)	5.70 mm (0.224 in)	8.00 mm (0.315 in)
Diameter Over Jacket	5.40 mm (0.213 in)	7.50 mm (0.295 in)	9.80 mm (0.386 in)

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS			
Minimum Bending Radius	27 mm	38 mm	49 mm
Installation Temperature Range	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C
Storage Temperature Range	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C
Operating Temperature Range	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C

	3D–FB	5D–FB	7D–FB
ELECTRICAL SPECIFICATIONS			
Capacitance	82 pF/m	82 pF/m	82 pF/m
Impedance	50 Ω	50 Ω	50 Ω
Velocity	81%	82%	82%
Voltage	1.0 kV	2.0 kV	2.5 kV
Inner Conductor DC Resistance	19.2 Ω/km	6.8 Ω/km	3.3 Ω/km
Outer Conductor DC Resistance	16.3 Ω/km	14.1 Ω/km	9.3 Ω/km
Jacket Spark	3.0 kV	5.0 kV	5.0 kV
Shielding Effectiveness	>80 dB	>80 dB	>80 dB
Insulation Resistance	>1×10⁴ MΩ•km	>1×10⁴ MΩ•km	>1×10⁴ MΩ•km
Cutoff Frequency	38.0 GHz	22.9 GHz	15.6 GHz
VSWR (Return Loss)			
5 ~ 3000 MHz	≤1.20 (≥20 dB)	≤1.20 (≥20 dB)	≤1.20 (≥20 dB)
800 ~ 1000 MHz	≤1.10 (≥26 dB)	≤1.10 (≥26 dB)	≤1.10 (≥26 dB)
1700 ~ 2000 MHz	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)
2000 ~ 2400 MHz	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)

PERFORMANCE

ATTENUATION dB/100m (dB/100ft)			
100 MHz	10.40 (3.17)	6.30 (1.92)	4.30 (1.31)
150 MHz	13.00 (3.96)	7.80 (2.38)	5.30 (1.62)
280 MHz	17.50 (5.33)	10.80 (3.29)	7.30 (2.23)
350 MHz	19.50 (5.94)	12.10 (3.69)	8.30 (2.53)
400 MHz	21.00 (6.40)	13.00 (3.96)	9.00 (2.74)
800 MHz	30.00 (9.14)	18.90 (5.76)	13.10 (3.99)
900 MHz	31.60 (9.63)	20.20 (6.16)	14.20 (4.33)
1200 MHz	37.00 (11.28)	23.70 (7.22)	16.70 (5.09)
1500 MHz	41.50 (12.65)	26.80 (8.17)	19.00 (5.79)
1800 MHz	45.60 (13.90)	29.70 (9.05)	21.10 (6.43)
1900 MHz	46.90 (14.30)	30.60 (9.33)	21.80 (6.64)
2000 MHz	48.20 (14.69)	31.50 (9.60)	22.50 (6.86)
2200 MHz	50.60 (15.42)	33.30 (10.15)	23.80 (7.25)
2500 MHz	54.10 (16.49)	35.80 (10.91)	25.70 (7.83)

50 OHM HIGH FREQUENCY SERIES CABLE

8D–FB

10D–FB

12D–FB

CONSTRUCTION MATERIALS			
Inner Conductor	Solid Bare Copper or Copper Clad Aluminum	Solid Bare Copper or Copper Clad Aluminum	Solid Bare Copper or Copper Clad Aluminum
Dielectric	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene
First Shield	Bonded Aluminum/ Polyester/ Aluminum Tape	Bonded Aluminum/ Polyester/ Aluminum Tape	Bonded Aluminum/ Polyester/ Aluminum Tape
Outer Conductor	Tinned Copper	Tinned Copper	Tinned Copper
Jacket	Black PVC or Polyethylene	Black PVC or Polyethylene	Black PVC or Polyethylene

PHYSICAL DIMENSIONS			
Inner Conductor Diameter	2.80 mm (0.110 in)	3.50 mm (0.138 in)	4.40 mm (0.173 in)
Dielectric Diameter	7.80 mm (0.307 in)	10.00 mm (0.394 in)	12.40 mm (0.488 in)
First Shield Diameter	8.00 mm (0.315 in)	10.20 mm (0.402 in)	12.60 mm (0.496 in)
Outer Conductor Diameter	8.60 mm (0.339 in)	10.80 mm (0.425 in)	13.20 mm (0.520 in)
Diameter Over Jacket	10.40 mm (0.409 in)	13.00 mm (0.512 in)	15.60 mm (0.614 in)

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS			
Minimum Bending Radius	52 mm	65 mm	78 mm
Installation Temperature Range	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C
Storage Temperature Range	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C
Operating Temperature Range	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C

	8D–FB	10D–FB	12D–FB
ELECTRICAL SPECIFICATIONS			
Capacitance	82 pF/m	84 pF/m	83 pF/m
Impedance	50 Ω	50 Ω	50 Ω
Velocity	82%	80%	81%
Voltage	2.5 kV	3.0 kV	4.0 kV
Inner Conductor DC Resistance	2.9 Ω/km	1.8 Ω/km	1.2 Ω/km
Outer Conductor DC Resistance	9.4 Ω/km	6.4 Ω/km	4.5 Ω/km
Jacket Spark	8.0 kV	8.0 kV	8.0 kV
Shielding Effectiveness	>80 dB	>80 dB	>80 dB
Insulation Resistance	>1×10⁴ MΩ•km	>1×10⁴ MΩ•km	>1×10⁴ MΩ•km
Cutoff Frequency	14.7 GHz	11.2 GHz	9.2 GHz
VSWR (Return Loss)			
5 ~ 3000 MHz	≤1.20 (≥20 dB)	≤1.20 (≥20 dB)	≤1.20 (≥20 dB)
800 ~ 1000 MHz	≤1.10 (≥26 dB)	≤1.10 (≥26 dB)	≤1.10 (≥26 dB)
1700 ~ 2000 MHz	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)
2000 ~ 2400 MHz	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)	≤1.15 (≥23 dB)

PERFORMANCE

ATTENUATION dB/100m (dB/100ft)			
100 MHz	4.10 (1.25)	3.20 (0.98)	2.70 (0.82)
150 MHz	5.10 (1.55)	4.00 (1.22)	3.40 (1.04)
280 MHz	7.10 (2.16)	5.60 (1.71)	4.70 (1.43)
350 MHz	8.10 (2.47)	6.30 (1.92)	5.30 (1.62)
400 MHz	8.70 (2.65)	6.80 (2.07)	5.70 (1.74)
800 MHz	12.90 (3.93)	10.20 (3.11)	8.50 (2.59)
900 MHz	13.80 (4.21)	11.00 (3.35)	9.10 (2.77)
1200 MHz	16.30 (4.97)	13.10 (3.99)	10.80 (3.29)
1500 MHz	18.60 (5.67)	15.00 (4.57)	12.30 (3.75)
1800 MHz	20.80 (6.34)	16.80 (5.12)	13.70 (4.18)
1900 MHz	21.50 (6.55)	17.40 (5.30)	14.20 (4.33)
2000 MHz	22.10 (6.74)	18.00 (5.49)	14.60 (4.45)
2200 MHz	23.50 (7.16)	18.80 (5.73)	14.90 (4.54)
2500 MHz	25.40 (7.74)	20.50 (6.25)	16.60 (5.06)

75 OHM DROP CABLE

RG59

RG6

RG7

RG11

CONSTRUCTION MATERIALS				
Inner Conductor	Solid Bare Copper or Copper Clad Steel	Solid Bare Copper or Copper Clad Steel	Solid Bare Copper or Copper Clad Steel	Solid Bare Copper or Copper Clad Steel
Dielectric	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene
First Shield	Bonded Aluminum/ Polyester/ Aluminum Tape	Bonded Aluminum/ Polyester/ Aluminum Tape	Bonded Aluminum/ Polyester/ Aluminum Tape	Bonded Aluminum/ Polyester/ Aluminum Tape
Outer Conductor	Aluminum or Tinned Copper	Aluminum or Tinned Copper	Aluminum or Tinned Copper	Aluminum or Tinned Copper
Jacket	PVC or Polyethylene	PVC or Polyethylene	PVC or Polyethylene	PVC or Polyethylene

PHYSICAL DIMENSIONS				
Inner Conductor Diameter	0.81 mm (0.032 in)	1.02 mm (0.040 in)	1.29 mm (0.051 in)	1.63 mm (0.064 in)
Dielectric Diameter	3.66 mm (0.144 in)	4.57 mm (0.180 in)	5.72 mm (0.225 in)	7.11 mm (0.280 in)
First Shield Diameter	3.80 mm (0.150 in)	4.70 mm (0.185 in)	5.90 mm (0.232 in)	7.30 mm (0.287 in)
Outer Conductor – Standard Shield Diameter – Super-Shield Diameter	 4.40 mm (0.173 in) 5.20 mm (0.205 in)	 5.30 mm (0.209 in) 6.00 mm (0.236 in)	 6.40 mm (0.252 in) 7.20 mm (0.283 in)	 7.80 mm (0.307 in) 8.50 mm (0.335 in)
Jacket – Standard Shield Diameter – Super-Shield Diameter	 6.10 mm (0.240 in) 6.73 mm (0.265 in)	 6.90 mm (0.272 in) 7.54 mm (0.297 in)	 8.10 mm (0.319 in) 8.64 mm (0.340 in)	 10.16 mm (0.400 in) 10.34 mm (0.407 in)

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS				
Minimum Bending Radius	34 mm	38 mm	43 mm	52 mm
Installation Temperature Range	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C
Storage Temperature Range	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C
Operating Temperature Range	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C

	RG59	RG6	RG7	RG11
ELECTRICAL SPECIFICATIONS				
Capacitance	53 pF/m	53 pF/m	53 pF/m	53 pF/m
Impedance	75 Ω	75 Ω	75 Ω	75 Ω
Velocity	85%	85%	85%	85%
Voltage Withstand	1.0 kV	1.0 kV	1.0 kV	1.0 kV
Inner Conductor DC Resistance	33.5 Ω/km	21.2 Ω/km	13.2 Ω/km	8.3 Ω/km
Outer Conductor DC Resistance	33.1 Ω/km	23.6 Ω/km	18.8 Ω/km	20.8 Ω/km
Jacket Spark	3.0 kV	3.0 kV	3.0 kV	5.0 kV
Shielding Effectiveness	>70 dB	>70 dB	>70 dB	>70 dB
Insulation Resistance	>1×10^4 MΩ•km	>1×10^4 MΩ•km	>1×10^4 MΩ•km	>1×10^4 MΩ•km
Cutoff Frequency	35.2 GHz	28.2 GHz	22.5 GHz	18.3 GHz
Return Loss				
5 ~ 470 MHz	≥23 dB	≥23 dB	≥23 dB	≥23 dB
470 ~ 862 MHz	≥20 dB	≥20 dB	≥20 dB	≥20 dB
862 ~ 2150 MHz	≥18 dB	≥18 dB	≥18 dB	≥18 dB

PERFORMANCE

ATTENUATION dB/100m (dB/100ft)				
5 MHz	2.53 (0.77)	1.87 (0.57)	1.54 (0.47)	1.18 (0.36)
55 MHz	6.18 (1.88)	4.94 (1.51)	4.00 (1.22)	3.12 (0.95)
211 MHz	11.79 (3.59)	9.43 (2.87)	7.53 (2.30)	5.95 (1.81)
270 MHz	13.29 (4.05)	10.63 (3.24)	8.50 (2.59)	6.76 (2.06)
300 MHz	14.01 (4.27)	11.25 (3.43)	8.99 (2.74)	7.12 (2.17)
330 MHz	14.76 (4.50)	11.84 (3.61)	9.47 (2.89)	7.51 (2.29)
400 MHz	16.01 (4.88)	13.12 (4.00)	10.50 (3.20)	8.30 (2.53)
450 MHz	17.39 (5.30)	14.04 (4.28)	11.19 (3.41)	8.83 (2.69)
550 MHz	19.36 (5.90)	15.62 (4.76)	12.47 (3.80)	9.88 (3.01)
750 MHz	22.83 (6.96)	18.44 (5.62)	14.76 (4.50)	11.75 (3.58)
870 MHz	24.75 (7.54)	19.99 (6.09)	15.99 (4.87)	12.80 (3.90)
1000 MHz	26.54 (8.09)	21.46 (6.54)	17.22 (5.25)	13.88 (4.23)

75 OHM TRUNK CABLE

SYWLY–75–7

SYWLY–75–9

SYWLY–75–12

CONSTRUCTION MATERIALS			
Inner Conductor	Solid Bare Copper or Copper Clad Aluminum	Solid Bare Copper or Copper Clad Aluminum	Solid Bare Copper or Copper Clad Aluminum
Dielectric	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene
Outer Conductor	Welding Smooth Aluminum Tube	Welding Smooth Aluminum Tube	Welding Smooth Aluminum Tube
Jacket	Polyethylene	Polyethylene	Polyethylene

PHYSICAL DIMENSIONS			
Inner Conductor Diameter	1.66 mm (0.065 in)	2.15 mm (0.085 in)	2.77 mm (0.109 in)
Dielectric Diameter	7.25 mm (0.285 in)	9.00 mm (0.354 in)	11.50 mm (0.453 in)
Outer Conductor Diameter	7.95 mm (0.313 in)	9.70 mm (0.382 in)	12.20 mm (0.480 in)
Diameter Over Jacket	10.30 mm (0.406 in)	12.30 mm (0.484 in)	15.10 mm (0.594 in)

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS			
Minimum Bending Radius	200 mm	240 mm	300 mm
Installation Temperature Range	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C
Storage Temperature Range	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C
Operating Temperature Range	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C

	SYWLY–75–7	SYWLY–75–9	SYWLY–75–12
ELECTRICAL SPECIFICATIONS			
Capacitance	52 pF/m	51 pF/m	50 pF/m
Impedance	75 Ω	75 Ω	75 Ω
Velocity	85%	88%	88%
Voltage Withstand	1.0 kV	1.0 kV	1.6 kV
Inner Conductor DC Resistance	12.4 Ω/km	7.4 Ω/km	4.5 Ω/km
Outer Conductor DC Resistance	3.4 Ω/km	2.8 Ω/km	2.3 Ω/km
Jacket Spark	5.0 kV	8.0 kV	8.0 kV
Shielding Effectiveness	>100 dB	>100 dB	>100 dB
Insulation Resistance	>1×10⁴ MΩ•km	>1×10⁴ MΩ•km	>1×10⁴ MΩ•km
Cutoff Frequency	18.0 GHz	15.0 GHz	11.5 GHz
Return Loss			
5 ~ 300 MHz	≥26 dB	≥26 dB	≥26 dB
300 ~ 550 MHz	≥24 dB	≥24 dB	≥24 dB
550 ~ 1000 MHz	≥22 dB	≥22 dB	≥22 dB

PERFORMANCE

ATTENUATION dB/100m (dB/100ft)			
5 MHz	1.30 (0.40)	1.00 (0.30)	0.60 (0.18)
50 MHz	3.00 (0.91)	2.30 (0.70)	1.70 (0.52)
200 MHz	5.80 (1.77)	4.50 (1.37)	3.50 (1.07)
550 MHz	10.30 (3.14)	8.00 (2.44)	6.00 (1.83)
800 MHz	12.80 (3.90)	9.90 (3.02)	7.40 (2.26)
1000 MHz	14.40 (4.39)	11.30 (3.44)	8.50 (2.59)

75 OHM TRUNK CABLE

SYWLY–75–13

SYWLY–75–15

SYWLY–75–17

CONSTRUCTION MATERIALS			
Inner Conductor	Solid Bare Copper or Copper Clad Aluminum	Solid Bare Copper or Copper Clad Aluminum	Solid Bare Copper or Copper Clad Aluminum
Dielectric	Physical Foam Polyethylene	Physical Foam Polyethylene	Physical Foam Polyethylene
Outer Conductor	Welding Smooth Aluminum Tube	Welding Smooth Aluminum Tube	Welding Smooth Aluminum Tube
Jacket	Polyethylene	Polyethylene	Polyethylene

PHYSICAL DIMENSIONS			
Inner Conductor Diameter	3.15 mm (0.124 in)	3.45 mm (0.136 in)	4.22 mm (0.166 in)
Dielectric Diameter	13.03 mm (0.513 in)	14.30 mm (0.563 in)	17.42 mm (0.686 in)
Outer Conductor Diameter	13.80 mm (0.543 in)	15.00 mm (0.591 in)	18.20 mm (0.717 in)
Diameter Over Jacket	15.80 mm (0.622 in)	18.00 mm (0.709 in)	21.00 mm (0.827 in)

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS			
Minimum Bending Radius	320 mm	360 mm	420 mm
Installation Temperature Range	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C
Storage Temperature Range	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C	-25/+70 °C or -70/+85 °C
Operating Temperature Range	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C	-25/+70 °C or -40/+85 °C

	SYWLY–75–13	SYWLY–75–15	SYWLY–75–17
ELECTRICAL SPECIFICATIONS			
Capacitance	50 pF/m	50 pF/m	50 pF/m
Impedance	75 Ω	75 Ω	75 Ω
Velocity	88%	85%	87%
Voltage Withstand	1.6 kV	1.6 kV	1.6 kV
Inner Conductor DC Resistance	3.5 Ω/km	3.0 Ω/km	2.0 Ω/km
Outer Conductor DC Resistance	1.8 Ω/km	1.6 Ω/km	1.3 Ω/km
Jacket Spark	8.0 kV	8.0 kV	8.0 kV
Shielding Effectiveness	>100 dB	>100 dB	>100 dB
Insulation Resistance	>1×10⁴ MΩ•km	>1×10⁴ MΩ•km	>1×10⁴ MΩ•km
Cutoff Frequency	10.0 GHz	9.5 GHz	7.5 GHz
Return Loss			
5 ~ 300 MHz	≥26 dB	≥26 dB	≥26 dB
300 ~ 550 MHz	≥24 dB	≥24 dB	≥24 dB
550 ~ 1000 MHz	≥22 dB	≥22 dB	≥22 dB

PERFORMANCE

ATTENUATION dB/100m (dB/100ft)			
5 MHz	0.50 (0.15)	0.43 (0.13)	0.36 (0.11)
50 MHz	1.50 (0.46)	1.44 (0.44)	1.15 (0.35)
200 MHz	3.00 (0.91)	2.94 (0.90)	2.37 (0.72)
550 MHz	5.20 (1.58)	4.95 (1.51)	4.11 (1.25)
800 MHz	6.30 (1.92)	6.15 (1.87)	5.19 (1.58)
1000 MHz	8.00 (2.44)	6.92 (2.11)	5.84 (1.78)

ACCESSORIES
CONNECTORS

NF-7/8"L

NM-1/2"H

NMA-1/2"L

DINF-1/2"L

DINM-1/2"H

DINMA-1/2"H

CONNECTORS CHARACTERISTICS AND TARGET

	Structure	
Characteristics	N Type	DIN Type
Impedance	50 Ω	50 Ω
Operating Voltage	1500 V	2700 V
Frequency Range	≤18.0 GHz	≤7.5 GHz
Shielding Effectiveness	≥115 dB	≥115 dB
Inner Contact Resistance	≤0.8 mΩ	≤0.4 mΩ
Outer Contact Resistance	≤0.25 mΩ	≤0.2 mΩ
Intermodulation	≤-155 dBc	≤-155 dBc
Insulation Resistance	≥5000 MΩ	≥10000 MΩ
Dielectric Withstanding Voltage	2500 V	3000 V
Insertion Loss	≤0.1 dB	≤0.08 dB
VSWR		
0.8 ~ 1.0GHz	≤1.06	≤1.06
1.7 ~ 2.0GHz	≤1.08	≤1.08
2.0 ~ 2.4GHz	≤1.08	≤1.08
Inner Conductor Pin	Brass/Silver Plating	Brass/Silver Plating
Inner Conductor Socket	Tin Bronze /Silver Plating	Tin Bronze/Silver Plating
Insulator	PTFE or TPX	PTFE or TPX
Body & Outer Conductor	Brass/Trimetal plating	Brass/Trimetal Plating
Gasket	Silicon Rubber	Silicon Rubber
Temperature Range	-65 ºC ~ +165ºC	-65 ºC ~ +165 ºC
Waterproof	IP67	IP67
Durability	≥500 cycle	≥500 cycle

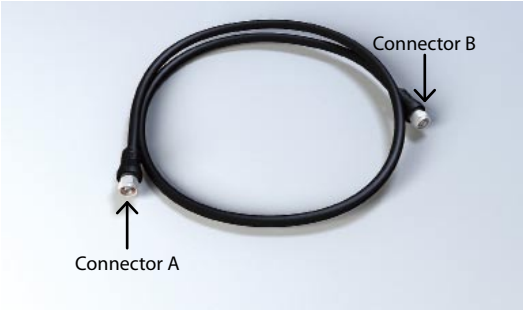
CONNECTORS SELECTION GUIDE

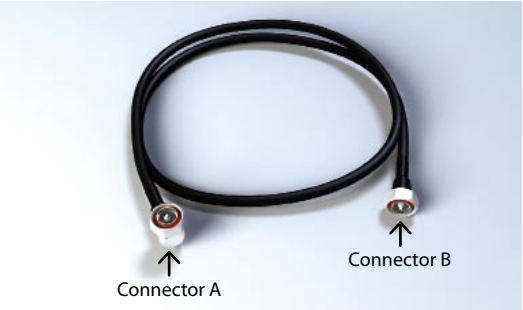
FLEXIBLE RF CABLE								
Cable Type	HCAAY-50-6 (1/4″)	HCAAY-50-8 (3/8″)	HCAAY-50-12 (1/2″)	HCTAY-50-16 (5/8″)	HCTAY-50-22 (7/8″)	HCTAY-50-23 (7/8″A)	HCTAY-50-32 (1-1/4″)	HHTAY-50-42 (1-5/8″)
Connector Code	DINM-1/4″L	DINM-3/8″L	DINM-1/2″L	DINM-5/8″L	DINM-7/8″L	DINM-7/8″LA	DINM-1-1/4″L	DINM-1-5/8″L
	DINF-1/4″L	DINF-3/8″L	DINF-1/2″L	DINF-5/8″L	DINF-7/8″L	DINF-7/8″LA	DINF-1-1/4″L	DINF-1-5/8″L
	DINMA-1/4″L	DINMA-3/8″L	DINMA-1/2″L	–	–	–	–	–
	NM-1/4″L	NM-3/8″L	NM-1/2″L	NM-5/8″L	NM-7/8″L	NM-7/8″LA	NM-1-1/4″L	NM-1-5/8″L
	NF-1/4″L	NF-3/8″L	NF-1/2″L	NF-5/8″L	NF-7/8″L	NF-7/8″LA	NF-1-1/4″L	NF-1-5/8″L
	NMA-1/4″L	NMA-3/8″L	NMA-1/2″L	–	–	–	–	–

SUPER FLEXIBLE RF CABLE					
Cable Type	HRCAY-50-5	HRCAY-50-7	HRCAY-50-9	HRCTY-50-21	HRCTY-50-31
Connector Code	DINM-1/4″H	DINM-3/8″H	DINM-1/2″H	DINM-7/8″H	DINM-1-1/4″H
	DINF-1/4″H	DINF-3/8″H	DINF-1/2″H	DINF-7/8″H	DINF-1-1/4″H
	DINMA-1/4″H	DINMA-3/8″H	DINMA-1/2″H	–	–
	NM-1/4″H	NM-3/8″H	NM-1/2″H	NM-7/8″H	NM-1-1/4″H
	NF-1/4″H	NF-3/8″H	NF-1/2″H	NF-7/8″H	NF-1-1/4″H
	NMA-1/4″H	NMA-3/8″H	NMA-1/2″H	–	–

LEAKY RF CABLE				
Cable Type	Leaky 1/2″R	Leaky 7/8″R	Leaky 1-1/4″R	Leaky 1-5/8″R
Connector Code	DINM-1/2″R	DINM-7/8″R	DINM-1-1/4″R	DINM-1-5/8″R
	DINF-1/2″R	DINF-7/8″R	DINF-1-1/4″R	DINF-1-5/8″R
	NM-1/2″R	NM-7/8″R	NM-1-1/4″R	NM-1-5/8″R
	NF-1/2″R	NF-7/8″R	NF-1-1/4″R	NF-1-5/8″R

ACCESSORIES
JUMPER CABLE





SUPER FLEXIBLE JUMPER CABLE												
	HCF 1/4 HRCAY-50-5				HCF 3/8 HRCAY-50-7				HCF 1/2 HRCAY-50-9			
Length	1.5 m	2.0 m	3.0 m	5.0 m	1.5 m	2.0 m	3.0 m	5.0 m	1.5 m	2.0 m	3.0 m	5.0 m
Impedance	50 Ω				50 Ω				50 Ω			
Insulation Resistance	≥5000 MΩ•km				≥5000 MΩ•km				≥5000 MΩ•km			
Dielectric Strength	2.0 kV				2.5 kV				2.5 kV			
Frequency Range	≤3.0 GHz				≤3.0 GHz				≤3.0 GHz			
Operating Voltage	1.5 kV				1.5 kV				1.5 kV			
Attenuation (dB)												
450 MHz	0.25	0.31	0.44	0.68	0.21	0.25	0.34	0.53	0.18	0.21	0.29	0.43
900 MHz	0.35	0.44	0.62	0.97	0.29	0.35	0.48	0.75	0.25	0.30	0.41	0.62
1800 MHz	0.52	0.64	0.90	1.42	0.42	0.51	0.71	1.09	0.36	0.44	0.60	0.91
2400 MHz	0.60	0.75	1.05	1.65	0.49	0.60	0.83	1.28	0.42	0.51	0.69	1.06
VSWR												
0.8 – 1.0 GHz	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
1.7 – 2.0 GHz	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
2.0 – 2.4 GHz	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
Intermodulation (dBc)	-155	-155	-155	-155	-155	-155	-155	-155	-155	-155	-155	-155

FLEXIBLE JUMPER CABLE												
	LCF 1/4 HCAAY-50-6 1/4″				LCF 3/8 HCAAY-50-8 3/8″				LCF 1/2 HCAAY-50-12 1/2″			
Length	1.5m	2.0m	3.0m	5.0m	1.5m	2.0m	3.0m	5.0m	1.5m	2.0m	3.0m	5.0m
Impedance	50 Ω				50 Ω				50 Ω			
Insulation Resistance	≥5000 MΩ•km				≥5000 MΩ•km				≥5000 MΩ•km			
Dielectric Strength	2.0 kV				2.5 kV				2.5 kV			
Frequency Range	≤3.0 GHz				≤3.0 GHz				≤3.0 GHz			
Operating Voltage	1.5 kV(N Type), 2.7kV(DIN Type)				1.5 kV(N Type), 2.7kV(DIN Type)				1.5 kV(N Type), 2.7kV(DIN Type)			
Attenuation (dB)												
450 MHz	0.21	0.26	0.35	0.54	0.17	0.21	0.27	0.41	0.14	0.16	0.21	0.31
900 MHz	0.29	0.36	0.50	0.77	0.24	0.29	0.38	0.58	0.19	0.23	0.29	0.43
1800 MHz	0.43	0.52	0.72	1.12	0.34	0.42	0.56	0.84	0.28	0.33	0.43	0.63
2400 MHz	0.50	0.61	0.84	1.30	0.40	0.48	0.65	0.99	0.32	0.38	0.50	0.73
VSWR												
0.8 – 1.0 GHz	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
1.7 – 2.0 GHz	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
2.0 – 2.4 GHz	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
Intermodulation (dBc)	-155	-155	-155	-155	-155	-155	-155	-155	-155	-155	-155	-155

SUPER FLEXIBLE JUMPER CABLE

HRCAY-50-5 Connector A	Code	Connector B	Code	Length	Jumper Code
DIN male	DINM	DIN male	DINM	1.5 m	DIMM-DINM HCF1/4 1.5M
				2.0 m	DINM-DINM HCF1/4 2.0M
				3.0 m	DINM-DINM HCF1/4 3.0M
DIN male	DINM	DIN female	DINF	1.5 m	DINM-DINF HCF1/4 1.5M
				2.0 m	DINM-DINF HCF1/4 2.0M
				3.0 m	DINM-DINF HCF1/4 3.0M
DIN male	DINM	N male	NM	1.5 m	DINM-NM HCF1/4 1.5M
				2.0 m	DINM-NM HCF1/4 2.0M
				3.0 m	DINM-NM HCF1/4 3.0M
DIN male	DINM	N female	NF	1.5 m	DINM-NF HCF1/4 1.5M
				2.0 m	DINM-NF HCF1/4 2.0M
				3.0 m	DINM-NF HCF1/4 3.0M
N male	NM	N male	NM	1.5 m	NM-NM HCF1/4 1.5M
				2.0 m	NM-NM HCF1/4 2.0M
				3.0 m	NM-NM HCF1/4 3.0M
DIN male	DINM	DIN male, right angle	DINMA	1.5 m	DINM-DINMA HCF1/4 1.5M
				2.0 m	DINM-DINMA HCF1/4 2.0M
				3.0 m	DINM-DINMA HCF1/4 3.0M

HRCAY-50-7 Connector A	Code	Connector B	Code	Length	Jumper Code
DIN male	DINM	DIN male	DINM	1.5 m	DINM-DINM HCF3/8 1.5M
				2.0 m	DINM-DINM HCF3/8 2.0M
				3.0 m	DINM-DINM HCF3/8 3.0M
DIN male	DINM	DIN female	DINF	1.5 m	DINM-DINF HCF3/8 1.5M
				2.0 m	DINM-DINF HCF3/8 2.0M
				3.0 m	DINM-DINF HCF3/8 3.0M
DIN male	DINM	N male	NM	1.5 m	DINM-NM HCF3/8 1.5M
				2.0 m	DINM-NM HCF3/8 2.0M
				3.0 m	DINM-NM HCF3/8 3.0M
DIN male	DINM	N female	NF	1.5 m	DINM-NF HCF3/8 1.5M
				2.0 m	DINM-NF HCF3/8 2.0M
				3.0 m	DINM-NF HCF3/8 3.0M
N male	NM	N male	NM	1.5 m	NM-NM HCF3/8 1.5M
				2.0 m	NM-NM HCF3/8 2.0M
				3.0 m	NM-NM HCF3/8 3.0M
DIN male	DINM	DIN male, right angle	DINMA	1.5 m	DINM-DINMA HCF3/8 1.5M
				2.0 m	DINM-DINMA HCF3/8 2.0M
				3.0 m	DINM-DINMA HCF3/8 3.0M

ACCESSORIES
JUMPER CABLE

SUPER FLEXIBLE JUMPER CABLE

HRCAY-50-9 Connector A	Code	Connector B	Code	Length	Jumper Code
DIN male	DINM	DIN male	DINM	1.5 m	DINM-DINM HCF1/2 1.5M
				2.0 m	DINM-DINM HCF1/2 2.0M
				3.0 m	DINM-DINM HCF1/2 3.0M
				5.0 m	DINM-DINM HCF1/2 5.0M
DIN male	DINM	DIN female	DINF	1.5 m	DINM-DINF HCF1/2 1.5M
				2.0 m	DINM-DINF HCF1/2 2.0M
				3.0 m	DINM-DINF HCF1/2 3.0M
DIN male	DINM	N male	NM	1.5 m	DINM-NM HCF1/2 1.5M
				2.0 m	DINM-NM HCF1/2 2.0M
				3.0 m	DINM-NM HCF1/2 3.0M
DIN male	DINM	N female	NF	1.5 m	DINM-NF HCF1/2 1.5M
				2.0 m	DINM-NF HCF1/2 2.0M
				3.0 m	DINM-NF HCF1/2 3.0M
DIN female	DINF	DIN female	DINF	1.5 m	DINF-DINF HCF1/2 1.5M
				2.0 m	DINF-DINF HCF1/2 2.0M
				3.0 m	DINF-DINF HCF1/2 3.0M
DIN female	DINF	N male	NM	1.5 m	DINF-NM HCF1/2 1.5M
				2.0 m	DINF-NM HCF1/2 2.0M
				3.0 m	DINF-NM HCF1/2 3.0M
N male	NM	N male	NM	1.5 m	NM-NM HCF1/2 1.5M
				2.0 m	NM-NM HCF1/2 2.0M
				3.0 m	NM-NM HCF1/2 3.0M
N male	NM	N female	NF	1.5 m	NM-NF HCF1/2 1.5M
				2.0 m	NM-NF HCF1/2 2.0M
				3.0 m	NM-NF HCF1/2 3.0M
N female	NF	N female	NF	1.5 m	NF-NF HCF1/2 1.5M
				2.0 m	NF-NF HCF1/2 2.0M
				3.0 m	NF-NF HCF1/2 3.0M
DIN male	DINM	DIN male, right angle	DINMA	1.5 m	DINM-DINMA HCF1/2 1.5M
				2.0 m	DINM-DINMA HCF1/2 2.0M
				3.0 m	DINM-DINMA HCF1/2 3.0M
N male	NM	N male, right angle	NMA	1.5 m	NM-NMA HCF1/2 1.5M
				2.0 m	NM-NMA HCF1/2 2.0M
				3.0 m	NM-NMA HCF1/2 3.0M

FLEXIBLE JUMPER CABLE

HCAAY-50-6 (1/4") Connector A	Code	Connector B	Code	Length	Jumper Code
DIN male	DINM	DIN male	DINM	1.5 m	DINM-DINM LCF1/4 1.5M
				2.0 m	DINM-DINM LCF1/4 2.0M
				3.0 m	DINM-DINM LCF1/4 3.0M
DIN male	DINM	DIN female	DINF	1.5 m	DINM-DINF LCF1/4 1.5M
				2.0 m	DINM-DINF LCF1/4 2.0M
				3.0 m	DINM-DINF LCF1/4 3.0M
DIN male	DINM	N male	NM	1.5 m	DINM-NM LCF1/4 1.5M
				2.0 m	DINM-NM LCF1/4 2.0M
				3.0 m	DINM-NM LCF1/4 3.0M
DIN male	DINM	N female	NF	1.5 m	DINM-NF LCF1/4 1.5M
				2.0 m	DINM-NF LCF1/4 2.0M
				3.0 m	DINM-NF LCF1/4 3.0M
N male	NM	N male	NM	1.5 m	NM-NM LCF1/4 1.5M
				2.0 m	NM-NM LCF1/4 2.0M
				3.0 m	NM-NM LCF1/4 3.0M
DIN male	DINM	DIN male, right angle	DINMA	1.5 m	DINM-DINMA LCF1/4 1.5M
				2.0 m	DINM-DINMA LCF1/4 2.0M
				3.0 m	DINM-DINMA LCF1/4 3.0M

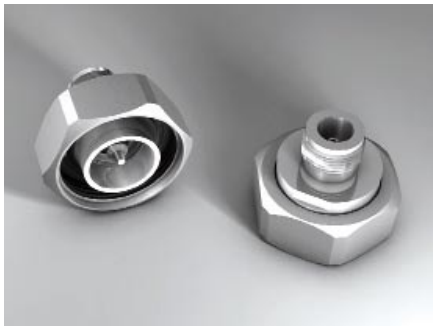
HCAAY-50-8 (3/8") Connector A	Code	Connector B	Code	Length	Jumper Code
DIN male	DINM	DIN male	DINM	1.5 m	DINM-DINM LCF3/8 1.5M
				2.0 m	DINM-DINM LCF3/8 2.0M
				3.0 m	DINM-DINM LCF3/8 3.0M
DIN male	DINM	DIN female	DINF	1.5 m	DINM-DINF LCF3/8 1.5M
				2.0 m	DINM-DINF LCF3/8 2.0M
				3.0 m	DINM-DINF LCF3/8 3.0M
DIN male	DINM	N male	NM	1.5 m	DINM-NM LCF3/8 1.5M
				2.0 m	DINM-NM LCF3/8 2.0M
				3.0 m	DINM-NM LCF3/8 3.0M
DIN male	DINM	N female	NF	1.5 m	DINM-NF LCF3/8 1.5M
				2.0 m	DINM-NF LCF3/8 2.0M
				3.0 m	DINM-NF LCF3/8 3.0M
N male	NM	N male	NM	1.5 m	NM-NM LCF3/8 1.5M
				2.0 m	NM-NM LCF3/8 2.0M
				3.0 m	NM-NM LCF3/8 3.0M
DIN male	DINM	DIN male, right angle	DINMA	1.5 m	DINM-DINMA LCF3/8 1.5M
				2.0 m	DINM-DINMA LCF3/8 2.0M
				3.0 m	DINM-DINMA LCF3/8 3.0M

ACCESSORIES
JUMPER CABLE

FLEXIBLE JUMPER CABLE

HCAAY-50-12(1/2") Connector A	Code	Connector B	Code	Length	Jumper Code
DIN male	DINM	DIN male	DINM	1.5 m	DINM-DINM LCF1/2 1.5M
				2.0 m	DINM-DINM LCF1/2 2.0M
				3.0 m	DINM-DINM LCF1/2 3.0M
				5.0 m	DINM-DINM LCF1/2 5.0M
DIN male	DINM	DIN female	DINF	1.5 m	DINM-DINF LCF1/2 1.5M
				2.0 m	DINM-DINF LCF1/2 2.0M
				3.0 m	DINM-DINF LCF1/2 3.0M
DIN male	DINM	N male	NM	1.5 m	DINM-NM LCF1/2 1.5M
				2.0 m	DINM-NM LCF1/2 2.0M
				3.0 m	DINM-NM LCF1/2 3.0M
DIN male	DINM	N female	NF	1.5 m	DINM-NF LCF1/2 1.5M
				2.0 m	DINM-NF LCF1/2 2.0M
				3.0 m	DINM-NF LCF1/2 3.0M
DIN female	DINF	DIN female	DINF	1.5 m	DINF-DINF LCF1/2 1.5M
				2.0 m	DINF-DINF LCF1/2 2.0M
				3.0 m	DINF-DINF LCF1/2 3.0M
DIN female	DINF	N male	NM	1.5 m	DINF-NM LCF1/2 1.5M
				2.0 m	DINF-NM LCF1/2 2.0M
				3.0 m	DINF-NM LCF1/2 3.0M
N male	NM	N male	NM	1.5 m	NM-NM LCF1/2 1.5M
				2.0 m	NM-NM LCF1/2 2.0M
				3.0 m	NM-NM LCF1/2 3.0M
N male	NM	N female	NF	1.5 m	NM-NF LCF1/2 1.5M
				2.0 m	NM-NF LCF1/2 2.0M
				3.0 m	NM-NF LCF1/2 3.0M
N female	NF	N female	NF	1.5 m	NF-NF LCF1/2 1.5M
				2.0m	NF-NF LCF1/2 2.0M
				3.0 m	NF-NF LCF1/2 3.0M
DIN male	DINM	DIN male, right angle	DINMA	1.5 m	DINM-DINMA LCF1/2 1.5M
				2.0 m	DINM-DINMA LCF1/2 2.0M
				3.0 m	DINM-DINMA LCF1/2 3.0M
N male	NM	N male, right angle	NMA	1.5 m	NM-NMA LCF1/2 1.5M
				2.0 m	NM-NMA LCF1/2 2.0M
				3.0 m	NM-NMA LCF1/2 3.0M

ACCESSORIES
ADAPTERS



DINM-NF

NMA-NF

DINF-NM

DINF-NF

NF-NF

NM-NM

Product Description	Product Code	Return Loss		Insertion Loss	Material			
		0 ~ 1 GHz	0 ~ 3 GHz		Center Contact	Plate	Body	Plate
DIN male – N male	DINM-NM	>40 dB	>40 dB	<0.02 dB	Brass	Silver	Brass	Trimetal
DIN male – N female	DINM-NF	>40 dB	>40 dB	<0.02 dB	Brass	Silver	Brass	Trimetal
DIN female – N male	DINF-NM	>40 dB	>40 dB	<0.02 dB	Brass	Silver	Brass	Trimetal
DIN female – N female	DINF-NF	>40 dB	>40 dB	<0.02 dB	Tin-Bronze	Silver	Brass	Trimetal
DIN male – DIN male	DINM-DINM	>40 dB	>35 dB	<0.02 dB	Brass	Silver	Brass	Trimetal
DIN male – DIN female	DINM-DINF	>40 dB	>35dB	<0.02 dB	Tin-Bronze	Silver	Brass	Trimetal
DIN female – DIN female	DINF-DINF	>40 dB	>35 dB	<0.02 dB	Tin-Bronze	Silver	Brass	Trimetal
N male – N male	NM-NM	>40 dB	>35 dB	<0.02 dB	Brass	Silver	Brass	Trimetal
N male – N female	NM-NF	>40 dB	>35 dB	<0.02 dB	Tin-Bronze	Silver	Brass	Trimetal
N female – N female	NF-NF	>40 dB	>35 dB	<0.02 dB	Tin-Bronze	Silver	Brass	Trimetal
N male right angle – N male	NMA-NM	>30 dB	>26 dB	<0.02 dB	Brass	Silver	Brass	Trimetal
N male right angle – N female	NMA-NF	>30 dB	>26 dB	<0.02 dB	Tin-Bronze	Silver	Brass	Trimetal
N female right angle – N female	NFA-NF	>30 dB	>26 dB	<0.02 dB	Tin-Bronze	Silver	Brass	Trimetal
N male – SMA male	NM-SMAM	>40 dB	>30 dB	<0.02 dB	Tin-Bronze	Gold	Brass	Trimetal
N male – SMA female	NM-SMAF	>40 dB	>30 dB	<0.02 dB	Tin-Bronze	Gold	Brass	Trimetal
N female – SMA male	NF-SMAM	>40 dB	>30 dB	<0.02 dB	Tin-Bronze	Gold	Brass	Trimetal
N female – SMA female	NF-SMAF	>40 dB	>30 dB	<0.02 dB	Tin-Bronze	Gold	Brass	Trimetal
DIN male – SMA male	DINM-SMAM	>35 dB	>26 dB	<0.02 dB	Tin-Bronze	Gold	Brass	Trimetal
DIN male – SMA female	DINM-SMAF	>35 dB	>26 dB	<0.02 dB	Tin-Bronze	Gold	Brass	Trimetal
DIN female – SMA male	DINF-SMAM	>35 dB	>26 dB	<0.02 dB	Tin-Bronze	Gold	Brass	Trimetal
DIN female – SMA female	DINF-SMAF	>35 dB	>26 dB	<0.02 dB	Tin-Bronze	Gold	Brass	Trimetal

ACCESSORIES
LIGHTNING SURGE ARRESTERS

DINM–DINF 2500

NM-NF 2200

	Type of Arrester	
Electrical Performance	**1/4 λ Type**	**Gas Tube**
Impedance	50 Ω	50 Ω
Interface Type	N Type, DIN Type	N Type
VSWR	≤1.20	≤1.10
Operating Voltage	–	≤5.5 V
Insertion Loss	≤0.1 dB	≤0.2 dB
Flow Capacity (8/20μs)	60 kA	10 kA
Residual Voltage	≤100 V	≤20 V
Average Power	N Type 500 W, DIN Type 2000W	50 W
Operating Temperature Range	-40ºC ~ +100 ºC	-40 ºC ~ +100 ºC
Relative Humidity	≤95%	≤95%

ARRESTER SELECTION GUIDE			
Description	**Frequency Band**	**Product Code**	
1/4 λ Arrester	450 MHz	DINM–DINF 450 MHz	NM-NF 450 MHz
	900 MHz	DINM–DINF 900 MHz	NM-NF 900 MHz
	1800 MHz	DINM–DINF 1800 MHz	NM-NF 1800 MHz
	2200 MHz	DINM–DINF 2200 MHz	NM-NF 2200 MHz
	2500 MHz	DINM–DINF 2500 MHz	NM-NF 2500 MHz
Gas Tube Arrester	3000 MHz	–	NM-NF 3000 MHz

ACCESSORIES
POWER SPLITTERS

	Microstrip Type			Cavity Type		
Electrical Performance	**2-way**	**3-way**	**4-way**	**2-way**	**3-way**	**4-way**
Interface Type 1	N female			N female		
Interface Type 2	DIN female			DIN female		
Frequency Band	800 MHz ~ 2500 MHz			800 MHz ~ 2500 MHz		
Impedance	50 Ω			50 Ω		
Input/Output ways	1/2	1/3	1/4	1/2	1/3	1/4
Maximum Power (N Type)	50 W	50 W	50 W	100 W	100 W	100 W
Maximum Power (DIN Type)	50 W	50 W	50 W	700 W	700 W	700 W
Insertion Loss	≤3.4 dB	≤5.3 dB	≤6.6 dB	≤3.2 dB	≤5.2 dB	≤6.3 dB
Distribution Ratio	3.00 dB	4.77 dB	6.00 dB	3.00 dB	4.77 dB	6.00 dB
Amplitude Balance	≤0.2 dB	≤0.2 dB	≤0.2 dB	≤0.2 dB	≤0.2 dB	≤0.2 dB
Phase Balance	≤5°	≤5°	≤5°	≤5°	≤5°	≤5°
VSWR	≤1.2	≤1.2	≤1.2	≤1.2	≤1.2	≤1.2
Intermodulation @ +43 dB*2	-130 dBc	-130 dBc	-130 dBc	-150 dBc	-150 dBc	-150 dBc
Isolation	20 dB	20 dB	20 dB	–	–	–
Temperature	-30 °C ~ +75 °C	-30 °C ~ +75 °C	-30 °C ~ +75 °C	-30 °C ~ +75 °C	-30 °C ~ +75 °C	-30 °C ~ +75 °C
Humidity	≤95%	≤95%	≤95%	≤95%	≤95%	≤95%

ACCESSORIES
COUPLERS

Electrical Performance	OHW5-NF	OHW6-NF	OHW10-NF	OHW15-NF	OHW20-NF	OHW25-NF
Interface Type	N female					
Coupling	5 dB	6 dB	10 dB	15 dB	20 dB	25 dB
Coupling Tolerance	±0.5 dB	±0.5 dB	±0.8 dB	±1.0 dB	±1.0 dB	±1.5 dB
Impedance	50 Ω					
Frequency	800 MHz ~ 2500 MHz					
Input Power	150 W	200 W	200 W	200 W	200 W	200 W
Reflected Power	20 W	40 W	50 W	50 W	50 W	50 W
Insertion Loss	≤2.35 dB	≤1.70 dB	≤0.70 dB	≤0.35 dB	≤0.20 dB	≤0.17 dB
VSWR	≤1.2	≤1.2	≤1.2	≤1.2	≤1.2	≤1.2
Intermodulation @ +43 dB*2	-140 dBc	-140 dBc	-140 dBc	-140 dBc	-140 dBc	-140 dBc
Directivity	20 dB	20 dB	20 dB	20 dB	20 dB	20 dB
Temperature	-30 ºC ~ +75ºC	-30 ºC ~ +75ºC	-30 ºC ~ +75ºC	-30 ºC ~ +75ºC	-30 ºC ~ +75ºC	-30 ºC ~ +75ºC
Humidity	≤95%	≤95%	≤95%	≤95%	≤95%	≤95%

ACCESSORIES
GROUNDING KITS

Spring Type Outdoor Grounding Kit
GKS078-10

Framework Type Outdoor Grounding Kit
GKM114-10

Copper Bar Outdoor Grounding Kit
GKK012-06

Item	GKS Type	GKM Type	GKK Type
Grounding Wire Length	1 m or Customized	1 m or Customized	1 m or Customized
Cable Section Acreage	16/25 mm^2	16/25 mm^2	16/25 mm^2
Electric Pressure	>500 N	>500 N	>500 N
Contact Material	T2 Red Copper+ 304(ASTM) Stainless steel	Tinned Copper Wire Braiding	T2 Red Copper
Waterproof Material	Waterproof Clay, Adhesive Tape	–	Waterproof clay, Adhesive Tape
Resistance	≤3 mΩ	≤3 mΩ	≤3 mΩ
Voltage Resistance	80 kA	80 kA	80 kA
Power Frequency Withstand Voltage	35 kV	35 kV	35 kV
Insulation Resistance	10 GΩ	10 GΩ	10 GΩ
Earth Resistance	2 mΩ	2 mΩ	2 mΩ
Durability	>10 years	>10 years	>10 years
Suitable Cable	1/2", 7/8", 7/8"S, 7/8"A, 1-1/4"L, 1-5/8"	3/8", 1/2", 7/8", 7/8"S, 7/8"A	1/2", 7/8", 7/8"S, 7/8"A, 1-1/4", 1-5/8"

ACCESSORIES
FEEDER CLAMPS

Through Type Feeder Clamp

Anchor-ear Type Feeder Clamp

Indoor Leak Type Feeder Clamp

THROUGH TYPE FEEDER CLAMP			
Product Code	Plastic Clip	For Cable Type	Diameter (mm)
1*3/8"L	Single	Flexible 3/8", 3/8" Leaky Cable	φ 11.5
2*3/8"L	Double	Flexible 3/8", 3/8" Leaky Cable	φ 11.5
3*3/8"L	Three	Flexible 3/8", 3/8" Leaky Cable	φ 11.5
1*1/2"H	Single	Super Flexible 1/2"	φ 13.4
2*1/2"H	Double	Super Flexible 1/2"	φ 13.4
3*1/2"H	Three	Super Flexible 1/2"	φ 13.4
1*1/2"L	Single	Flexible 1/2", 1/2" Leaky Cable	φ 15.7
2*1/2"L	Double	Flexible 1/2", 1/2" Leaky Cable	φ 15.7
3*1/2"L	Three	Flexible 1/2", 1/2" Leaky Cable	φ 15.7
1*7/8"L	Single	Flexible and Super Flexible 7/8", 7/8" Leaky Cable	φ 27.5
2*7/8"L	Double	Flexible and Super Flexible 7/8", 7/8" Leaky Cable	φ 27.5
3*7/8"L	Three	Flexible and Super Flexible 7/8", 7/8" Leaky Cable	φ 27.5
4*7/8"L	Four	Flexible and Super Flexible 7/8", 7/8" Leaky Cable	φ 27.5
1*1-1/4"L	Single	Flexible / Super Flexible 1-1/4", 1-1/4" Leaky Cable	φ 39.0
2*1-1/4"L	Double	Flexible / Super Flexible 1-1/4", 1-1/4" Leaky Cable	φ 39.0
3*1-1/4"L	Three	Flexible / Super Flexible 1-1/4", 1-1/4" Leaky Cable	φ 39.0
1*1-5/8"L	Single	Flexible 1-5/8", 1-5/8" Leaky Cable	φ 49.5
2*1-5/8"L	Double	Flexible 1-5/8", 1-5/8" Leaky Cable	φ 49.5

ANCHOR-EAR TYPE FEEDER CLAMP			
Product Code	Plastic Clip	For Cable Type	Diameter (mm)
1*1/2"L	Single	Flexible 1/2", 1/2" Leaky Cable	φ 15.7
1*7/8"L	Single	Flexible / Super Flexible 7/8", 7/8" Leaky Cable	φ 27.5
1*1-1/4"L	Single	Flexible / Super Flexible 1-1/4", 1-1/4" Leaky Cable	φ 39.0
1*1-5/8"L	Single	Flexible 1-5/8" , 1-5/8" Leaky Cable	φ 49.5

INDOOR LEAK TYPE FEEDER CLAMP			
Product Code	Plastic Clip	For Cable Type	Diameter (mm)
1*1/2"R	Single	1/2" Radiating Leaky Cable	φ 15.0
1*7/8"R	Single	7/8" Radiating Leaky Cable	φ 27.2
1*1-1/4"R	Single	1-1/4" Radiating Leaky Cable	φ 38.5
1*1-5/8"R	Single	1-5/8" Radiating Leaky Cable	φ 48.3

Shackle Type Feeder Clamp

Throat Hoop Feeder Clamp

Wall Attachment Type Feeder Clamp

SHACKLE TYPE FEEDER CLAMP			
Product Code	Plastic Clip	For Cable Type	Diameter (mm)
1*7/8"L	Single	Flexbile / Super Flexible 7/8", 7/8" Leaky Cable	φ 27.5
2*7/8"L	Double	Flexbile / Super Flexible 7/8", 7/8" Leaky Cable	φ 27.5
3*7/8"L	Three	Flexbile / Super Flexible 7/8", 7/8" Leaky Cable	φ 27.5
1*1-1/4"L	Single	Flexible / Super Flexible 1-1/4", 1-1/4" Leaky Cable	φ 39.0
2*1-1/4"L	Double	Flexible / Super Flexible 1-1/4", 1-1/4" Leaky Cable	φ 39.0
3*1-1/4"L	Three	Flexible / Super Flexible 1-1/4", 1-1/4" Leaky Cable	φ 39.0

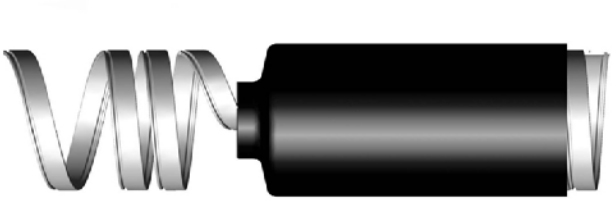
THROAT HOOP TYPE FEEDER CLAMP			
Product Code	Plastic Clip	For Cable Type	Diameter (mm)
1*1/2"L	Single	Flexible 1/2", 1/2" Leaky Cable	φ 15.7
1*7/8"L	Single	Flexible / Super Flexible 7/8", 7/8" Leaky Cable	φ 27.5
1*1-1/4"L	Single	Flexible / Super Flexible 1-1/4", 1-1/4" Leaky Cable	φ 39.0
1*1-5/8"L	Single	Flexible 1-5/8", 1-5/8" Leaky Cable	φ 49.5
6*7/8"L	Six	Flexible / Super Flexible 7/8", 7/8" Leaky Cable	φ 27.5

WALL ATTACHMENT TYPE FEEDER CLAMP			
Product Code	Plastic Clip	For Cable Type	Diameter (mm)
1*1/2"L	Single	Flexible 1/2", 1/2" Leaky Cable	φ 15.7
2*1/2"L	Double	Flexible 1/2", 1/2" Leaky Cable	φ 15.7
1*7/8"L	Single	Flexible / Super Flexible 7/8", 7/8" Leaky Cable	φ 27.5
2*7/8"L	Double	Flexible / Super Flexible 7/8", 7/8" Leaky Cable	φ 27.5
1*1-1/4"L	Single	Flexible / Super Flexible 1-1/4", 1-1/4" Leaky Cable	φ 39.0
1*1-5/8"L	Single	Flexible 1-5/8", 1-5/8" Leaky Cable	φ 49.5

ACCESSORIES
WATERPROOFING KITS

RUBBER MASTIC TAPE		
Product Code	Type	Description
3M 2166	63.5 mm*3.175 mm*600 mm	3M 2166 Waterproof Rubber Mastic Tape
3M 2228	50.8 mm*1.65 mm*3000 mm	3M 2228 Waterproof Rubber Mastic Tape
3M 2228	50.8 mm*1.65 mm*1000 mm	3M 2228 Waterproof Rubber Mastic Tape
RMT51-3000	51.0 mm*2.50 mm*3000 mm	Rubber Mastic Tape
RMT60-500	60.0 mm*2.50 mm*500 mm	Rubber Mastic Tape
RMT65-500	65.0 mm*2.50 mm*500 mm	Rubber Mastic Tape
RMT60-1000	60.0 mm*2.50 mm*1000 mm	Rubber Mastic Tape
RMT60-330	60.0 mm*2.50 mm*330 mm	Rubber Mastic Tape
RMT60-600	60.0 mm*2.50 mm*600 mm	Rubber Mastic Tape

ELECTRICAL TAPE		
Product Code	Type	Description
3M1712	50 mm*0.18 mm*10 m	3M1712 Electrical Tape
3M1712	50 mm*0.18 mm*20 m	3M1712 Electrical Tape
3M1712	18 mm*0.18 mm*10 m	3M1712 Electrical Tape
3M1712	18 mm*0.18 mm*20 m	3M1712 Electrical Tape
3M33+	18 mm*0.18 mm*20 m	3M33+ Electrical Tape
3M33+	50 mm*0.18 mm*10 m	3M33+ Electrical Tape
3M33+	50 mm*0.18 mm*20 m	3M33+ Electrical Tape
3M33+	38 mm*0.18 mm*20 m	3M33+ Electrical Tape
ET19-10	19 mm*10 m	Electrical Tape
ET19-20	19 mm*20 m	Electrical Tape
ET50-10	50 mm*10 m	Electrical Tape
ET50-20	50 mm*20 m	Electrical Tape
ET60-6	60 mm*6 m	Electrical Tape



Heat-Shrink Tube		
Cable Type	Product Code	Diameter (mm)
1/4″	TGH15	φ15
3/8″	TGH15	φ15
1/2″	TGH22	φ22
5/8″	TGH28	φ28
7/8″	TGH30	φ30
1-1/4″	TGH50	φ50
1-5/8″	TGH60	φ60
1/4″S	TGH15	φ15
3/8″S	TGH15	φ15
1/2″S	TGH22	φ22
7/8″S	TGH30	φ30

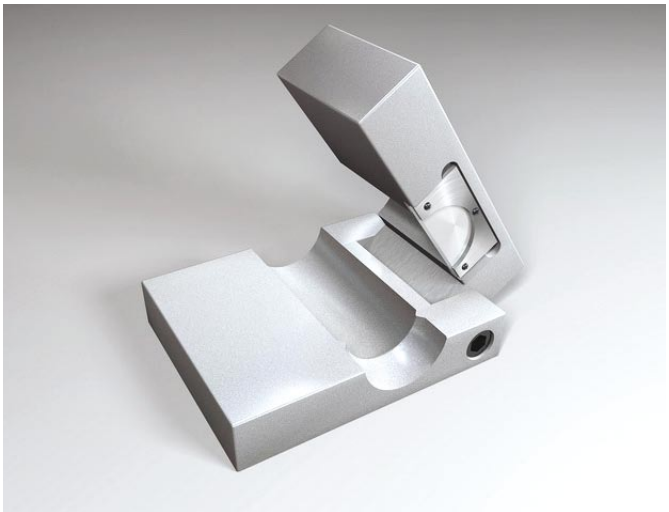
Cold-Shrink Tube	
Cable Type	Product Code
3/8″– 1/2″	TGC38-12
1/4″– 5/8″	TGC14-58
1/2″– 5/8″	TGC12-58
3/8″– 7/8″	TGC38-78
1/2″– 7/8″	TGC12-78
3/8″– 1-1/4″	TGC38-114
1/2″– 1-1/4″	TGC12-114
5/8″– 1-1/4″	TGC58-114
3/8″– 1-5/8″	TGC38-158
1/2″– 1-5/8″	TGC12-158
5/8″– 1-5/8″	TGC58-158

Weatherproofing	
Product Code	Description
WP12-AC	Enclosure for 1/2″ to antenna connection
WP12-78	Enclosure for 1/2″ to 7/8″ connections
WP12-114	Enclosure for 1/2″ to 1-1/4″ connections
WP12-158	Enclosure for 1/2″ to 1-5/8″ connections

ACCESSORIES
NYLON CABLE TIE

NYLON CABLE TIE			
Product Code	Size	Operation Temperature	Description
NCT01	2.5 mm x 100 mm	-35ºC – 85ºC	White Nylon Cable Tie
NCT02	3.0 mm x 200 mm	-35ºC – 85ºC	White Nylon Cable Tie
NCT03	3.5 mm x 250 mm	-35ºC – 85ºC	White Nylon Cable Tie
NCT04	3.6 mm x 150 mm	-35ºC – 85ºC	White Nylon Cable Tie
NCT05	4.0 mm x 150 mm	-35ºC – 85ºC	White Nylon Cable Tie
NCT06	4.0 mm x 300 mm	-35ºC – 85ºC	White Nylon Cable Tie
NCT07	4.0 mm x 450 mm	-35ºC – 85ºC	White Nylon Cable Tie
NCT08	4.5 mm x 200 mm	-35ºC – 85ºC	White Nylon Cable Tie
NCT09	5.0 mm x 400 mm	-35ºC – 85ºC	White Nylon Cable Tie
NCT10	7.5 mm x 350 mm	-35ºC – 85ºC	White Nylon Cable Tie
NCT11	8.0 mm x 350 mm	-35ºC – 85ºC	White Nylon Cable Tie
NCT12	8.0 mm x 400 mm	-35ºC – 85ºC	White Nylon Cable Tie
NCT13	8.0 mm x 600 mm	-35ºC – 85ºC	White Nylon Cable Tie
NCT14	9.0 mm x 500 mm	-35ºC – 85ºC	White Nylon Cable Tie
NCT15	9.0 mm x 550 mm	-35ºC – 85ºC	White Nylon Cable Tie
NCT51	2.5 mm x 92 mm	-35ºC – 85ºC	Black Nylon Cable Tie
NCT52	3.0 mm x 100 mm	-35ºC – 85ºC	Black Nylon Cable Tie
NCT53	3.0 mm x 200 mm	-35ºC – 85ºC	Black Nylon Cable Tie
NCT54	3.5 mm x 250 mm	-35ºC – 85ºC	Black Nylon Cable Tie
NCT55	4.0 mm x 300 mm	-35ºC – 85ºC	Black Nylon Cable Tie
NCT56	4.0 mm x 450 mm	-35ºC – 85ºC	Black Nylon Cable Tie
NCT57	5.0 mm x 350 mm	-35ºC – 85ºC	Black Nylon Cable Tie
NCT58	7.0 mm x 250 mm	-35ºC – 85ºC	Black Nylon Cable Tie
NCT59	7.6 mm x 430 mm	-35ºC – 85ºC	Black Nylon Cable Tie
NCT60	8.0 mm x 400 mm	-35ºC – 85ºC	Black Nylon Cable Tie
NCT61	9.0 mm x 500 mm	-35ºC – 85ºC	Black Nylon Cable Tie
NCT62	9.0 mm x 600 mm	-35ºC – 85ºC	Black Nylon Cable Tie
NCT63	10.0 mm x 400 mm	-35ºC – 85ºC	Black Nylon Cable Tie
NCT64	10.0 mm x 500 mm	-35ºC – 85ºC	Black Nylon Cable Tie
NCT65	10.0 mm x 650 mm	-35ºC – 85ºC	Black Nylon Cable Tie

ACCESSORIES
OTHER ACCESSORIES



HOISTING GRIP		
Product Code	Type	Description
HG12	1/2"	1/2" Flexible Cable Hoisting Grip
HG78	7/8"	7/8" Flexible Cable Hoisting Grip
HG114	1-1/4"	1-1/4" Flexible Cable Hoisting Grip
HG158	1-5/8"	1-5/8" Flexible Cable Hoisting Grip

CUTTING TOOL		
Product Code	Type	Description
CT12	1/2"	1/2" Flexible Cable Cutting Tool
CT78	7/8"	7/8" Flexible Cable Cutting Tool
CT114	1-1/4"	1-1/4" Flexible Cable Cutting Tool

COPPER GROUND BAR		
Product Code	Type	Application
CGB6-250	6 mm*80 mm*250 mm	Fixing on the wall or ground for grounding protection
CGB6-300	6 mm*60 mm*300 mm	
CGB6-400	6 mm*80 mm*400 mm	
CGB6-450	6 mm*80 mm*450 mm	
CGB10-500	10 mm*100 mm*500 mm	
CGB8-300	8 mm*100 mm*300 mm	
CGB8-500	8 mm*100 mm*500 mm	
CGB8-450	8 mm*120 mm*450 mm	

CABLE ENTRY PANEL		
Product Code	Type	Description
CEW2	400 mm*250 mm	For flexible cable installation
CEW3	400 mm*300 mm	
CEW4	400 mm*400 mm	
CEW6	400 mm*500 mm	
CEW9	500 mm*500 mm	
CEW12	650 mm*650 mm	

HENGXIN TECHNOLOGY

SINGAPORE:

16 Raffles Quay
#33-02B Hong Leong Building
Singapore 048581
Tel: (65) 6220 8766
Fax: (65) 6220 8767
Email: hengxin@listedcompany.com

CHINA (MANUFACTURING BASE AND SALES OFFICE):

JIANGSU HENGXIN TECHNOLOGY CO.,LTD.
No.138 Taodu Road,Yixing City,
Jiangsu Province,China 214 222
Tel: (86) 510 8749 9573
Fax:(86) 510 8749 1427
Email:oversea@hengxin.com

www.hengxin.com