

1/2" Soft Cable
Electrical specifications

Frequency range	DC to 10GHz
VSWR	≤ 1.15 (DC~2.7GHz) ≤ 1.20 (3.3~3.8GHz) ≤ 1.30 (3.8~5.8GHz)
Impedance	50 Ω
Dielectric strength	6000V DC, 1 minute
Insulation resistance	≥ 10000 M Ω @20 °C
Center contact resistance	$\leq 1.62\Omega$ /km @20 °C
Outer contact resistance	$\leq 2.42\Omega$ /km @20 °C
Mutual capacitance(Reference)	76pF/m
Shielding effectiveness	≥ 120 dB (30~1000MHz)
Relative propagation velocity	88% (Typical)
Intermodulation IM3	≤ -115 dBm

Frequency	Attenuation	Frequency/MHz	Attenuation
800 MHz	6.46 dB/100m	2500 MHz	12.06 dB/100m
900 MHz	6.85 dB/100m	2700 MHz	12.61 dB/100m
1000 MHz	7.24 dB/100m	3500 MHz	16.42 dB/100m
1800 MHz	10.1 dB/100m	5000 MHz	20.60 dB/100m
2000 MHz	10.7 dB/100m	5800 MHz	21.82 dB/100m
2200 MHz	11.24 dB/100m	6000 MHz	22.40 dB/100m

Note: Nominal attenuation at 20 °C cable temperature (typical). Maximum value +5%.

Mechanical specifications

Certification	YD/T 1092
Reference weight	20.4kg/100m
Max tensile force	1130N
Flat plate crush resistance	20.0N/mm
Double 85 (85°C $\pm$ 2°C, 85°C $\pm$ 2°C,1000h)	No crack
Minimum bending radius	125mm (Single) / 80mm(Repeated)
Cable outer jacket	Black PE
Jacket tensile strength	≥ 10 MPa (Before aging)
Jacket elongation	$\geq 350\%$ (Before aging) $\geq 300\%$ (Aged)
Operating temperature	-55 °C ~ +85 °C
Storage temperature	-40 °C ~ +85 °C
Min. Installation temperature	-25°C
IP grade	IP67



Inner conductor : 4.8 $\pm$ 0.05 mm

Insulation : 12.6 $\pm$ 0.2 mm

Outer conductor : 13.9 $\pm$ 0.25 mm

Outer jacket : 15.7 $\pm$ 0.3 mm