

Product Specification

1/2" flexible feeder cable

Model No.:HT.COC-RF0727-1/2

Construction

| | | | |
|-----------------|--------------|---------------------------|--|
| Inner Conductor | Material | Copper clad aluminum wire | |
| | Diameter(mm) | 4.80±0.05 | |
| Insulation | Material | Physically foamed PE | |
| | Diameter(mm) | 12.20±0.30 | |
| Outer conductor | Material | Ring corrugated copper | |
| | Diameter(mm) | 13.80±0.20 | |
| Jacket | Material | PE or fire retardant PE | |
| | Diameter(mm) | 15.80±0.20 | |



1: Inner Conductor 2: Insulation
3: Outer conductor 4: Jacket

Attenuation and average power

| Frequency MHz | Nom. attenuation @20°C, dB/100m | Power rate @20°C, kW |
|------------------|------------------------------------|-------------------------|
| 10 | 0.67 | 11.3 |
| 100 | 2.17 | 3.49 |
| 450 | 4.75 | 1.59 |
| 690 | 5.97 | 1.338 |
| 800 | 6.46 | 1.17 |
| 900 | 6.85 | 1.1 |
| 1000 | 7.28 | 1.04 |
| 1800 | 10.10 | 0.753 |
| 2000 | 10.70 | 0.71 |
| 2200 | 11.24 | 0.656 |
| 2400 | 11.78 | 0.620 |
| 2500 | 12.06 | 0.612 |
| 2600 | 12.34 | 0.604 |
| 2700 | 12.61 | 0.595 |
| 3000 | 13.40 | 0.565 |
| 3800 | 14.26 | 0.516 |

Mechanical properties

| | | | |
|------------------------------|--------------------------|--------------|----------|
| Bending radius (mm) | Single | 70 | |
| | Repeated | 125 | |
| | Moving | 350 | |
| Pulling strength (N) | | 1130 | |
| Crush resistance (kg/mm) | | 2 | |
| Recommended temperature (°C) | PE jacket | Store | - 70~+85 |
| | | Installation | - 40~+60 |
| | | Operation | - 55~+85 |
| | Fire retardant PE jacket | Store | - 30~+80 |
| | | Installation | - 25~+60 |
| | | Operation | - 30~+80 |

Electrical properties

| | |
|------------------------------|--------------------|
| Impedance(Ω) | 50±1 |
| Capacitance(PF/m) | 75.8 |
| Inductance(H/m) | 0.19 |
| Propagation velocity(%) | 88 |
| DC breakdown voltage(kV) | 4 |
| Insulation resistance(MΩ•km) | >5×10 ³ |
| Peak power(kW) | 40 |
| Screening attenuation(dB) | >>120 |
| Cut-off frequency, GHz | 8.8 |

Maximum attenuation value shall be 105% of the nominal

VSWR

| | |
|---------------|--------|
| 820~960 MHz | ≤ 1.15 |
| 1700~2200 MHz | ≤ 1.15 |
| 2300~2400 MHz | ≤ 1.15 |
| 2500~2700 MHz | ≤ 1.15 |

Standards

| | |
|-----------------|-----------|
| 2011/65/EU | Compliant |
| IEC61196.1-2005 | Compliant |

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