


Class A+

HQ 113 HFFR



Anvendelse

Disse kabler bruges til CCTV-signaler og til fordeling af bredbånds- og CATV-signaler i systemer, hvor der er krav til lav kabeldæmpning. Disse kabler er halogenfrie, frigiver ikke korroderede gasser, og er brandhæmmende pga. den HFFR blanding, som er anvendt til deres ydrekappe.

| Kablets opbygning | Tekniske egenskaber | Kableldæmpning (20°C) | Transferimpedans |
|---|--|---|---------------------------------|
| Inderleder Ø 1.13 mm ren kobber | Kabelvægt 9 kg/km | 5 MHz 1.40 dB/100m | 5-30 MHz ≤ 2.5 mΩ/m |
| Dielektrikum Ø 4.80 mm gasopskummet | Kobbervægt 30 mm | 50 MHz 4.10 dB/100m | |
| Film/Skum/Film PE | Min. bøjningsradius 110 N | 230 MHz 8.20 dB/100m | |
| 1. skærm Aluminiumsfolie (limet til dielektrikum) | Temperaturområde Pakning | 470 MHz 12.30 dB/100m | |
| 2. skærm Aluminiumsfletskærm | -30 °C ... +70 °C 5 / 10 / 25 / 100 / 250 / 500 m | 860 MHz 16.90 dB/100m | Skærmtæthed |
| 3. skærm Aluminiumsfolie (limet til kappen) | Isolationsmodstand Maks. spænding | 1000 MHz 19.20 dB/100m | 30-1200 MHz ≥ 95 dB |
| Kappe Ø 6.80 mm HFFR* Hvid | Testet spænding Inderleder DC-modstand | 1200 MHz 21.90 dB/100m | 1200-2000 MHz ≥ 85 dB |
| | 75 ± 2 Ω 53 ± 2 pF/m | 2150 MHz 29.90 dB/100m | 2000-3000 MHz ≥ 75 dB |
| | Udbredelseshastighed Isolationsmodstand | 3000 MHz 36.20 dB/100m | |
| Elektriske egenskaber | | Refleksionsdæmpning (20°C) | |
| | | 5-470 MHz 470-1200 MHz 1200-2000 MHz 2000-3000 MHz | Standarer |
| | | > 26 dB > 23 dB > 20 dB > 18 dB | Skærmtæthed klasse EN 50117-2-4 |
| | | | Brandklassifikation |
| | | | D _{ca} |
| | | | Brandhæmmende |
| | | | EN 60332-1-2 |
| | | | Test af korrodende gasser |
| | | | TS EN 60754-2 |
| | | | Røgudvikling |
| | | | EN 61034-2 |

Application

These types of cables are used for CCTV and indoor CATV distributions and connections of systems which require low attenuations. These cables are Halogen Free, Non Corrosive and Flame retardant, thanks to the HFFR Compound that has been used on their construction.

| Cable Construction | Technical Properties | Attenuations (20°C) | Transfer Impedance |
|--|--|---|------------------------------|
| Inner Conductor Ø 1.13 mm Bare Copper | Cable Weight 9 kg/km | 5 MHz 1.40 dB/100m | 5-30 MHz ≤ 2.5 mΩ/m |
| Insulation Ø 4.80 mm Gas Injected | Copper Weight 30 mm | 50 MHz 4.10 dB/100m | |
| Skin/Foam/Skin PE | Max. Tensile Strength 110 N | 230 MHz 8.20 dB/100m | |
| 1 st Shielding Aluminum Foil (Bonded to the Insulation) | Temperature Range -30 °C ... +70 °C | 470 MHz 12.30 dB/100m | Screening Attenuation |
| 2 nd Shielding Aluminum Wire Braiding | Packing 5 / 10 / 25 / 100 / 250 / 500 m | 860 MHz 16.90 dB/100m | 30-1200 MHz ≥ 95 dB |
| 3 rd Shielding Aluminum Foil (Bonded to the Jacket) | Impedance 75 ± 2 Ω | 1000 MHz 19.20 dB/100m | 1200-2000 MHz ≥ 85 dB |
| Outer Sheath Ø 6.80 mm HFFR* White | Capacitance 53 ± 2 pF/m | 1200 MHz 21.90 dB/100m | 2000-3000 MHz ≥ 75 dB |
| | Velocity of Propagation 84 % | 2150 MHz 29.90 dB/100m | |
| | Insulation Resistance > 2 GΩxkm | 3000 MHz 36.20 dB/100m | |
| Electrical Properties | | Return Loss (20°C) | |
| | | 5-470 MHz 470-1200 MHz 1200-2000 MHz 2000-3000 MHz | Standards |
| | | > 26 dB > 23 dB > 20 dB > 18 dB | Screening Class EN 50117-2-4 |
| | | | Euro Class |
| | | | D _{ca} |
| | | | Flame Retardancy |
| | | | EN 60332-1-2 |
| | | | Corrosive Gases Test |
| | | | TS EN 60754-2 |
| | | | Smoke Density |
| | | | EN 61034-2 |