



Class A+



HD 113 Cu/Cu PE

Anvendelse

Disse kabler bruges udendørs til fordeling af bredbånds- og CATV-signaler og til forbindelse af SMATV systemer, der kræver lav kabeldæmpning.

Kablets opbygning

Inderleder
Ø 1.13 mm ren kobber

Dielektrikum
Ø 4.80 mm gasopskummet
Film/Skum/Film PE

1. skærm
Cu-Pet film

2. skærm
Kobberfletskærm

3. skærm
Cu-Pet film
(Limet til kablets kappe)

Kappe
Ø 7.00 mm PE

Tekniske egenskaber

Kabelvægt 48 kg/km
Kobbervægt 15.00 kg/km
Min. bøjningsradius 30 mm
Maks. trækraft 120 N
Temperaturområde -40 °C ... +70 °C
Pakning 100 / 350 / 500 m

Elektriske egenskaber

Impedans 75 ± 2 Ω
Kapacitans 53 ± 2 pF/m
Udbreddelseshastighed 84 %
Isolationsmodstand > 2 GΩxkm
Maks. spænding 1300 V
Testet spænding 3000 V
Inderleder DC-modstand < 17.80 Ω/km

Kableldæmpning (20°C)

5 MHz 1.40 dB/100m
50 MHz 4.10 dB/100m
230 MHz 8.20 dB/100m
470 MHz 12.30 dB/100m
860 MHz 16.90 dB/100m
1000 MHz 19.20 dB/100m
1200 MHz 21.90 dB/100m
2150 MHz 29.90 dB/100m
3000 MHz 36.20 dB/100m

Refleksionsdæmpning (20°C)

5-470 MHz > 26 dB
470-1200 MHz > 23 dB
1200-2000 MHz > 20 dB
2000-3000 MHz > 18 dB

Transferimpedans

5-30 MHz ≤ 2.5 mΩ/m

Skærmtæthed

30-1200 MHz ≥ 95 dB
1200-2000 MHz ≥ 85 dB
2000-3000 MHz ≥ 75 dB

Standarder

Skærmtæthed klasse klasse A+
EN 50117-2-4

Brandklassifikation

F_{ca}

Application

These types of cables are used for outdoor CATV distributions and connections of SMATV systems which require low attenuations.

Cable Construction

Inner Conductor
Ø 1.13 mm Bare Copper

Insulation
Ø 4.80 mm Gas Injected
Skin/Foam/Skin PE

1st Shielding
Cu-Pet Foil

2nd Shielding
Copper Wire Braiding

3rd Shielding
Cu-Pet Foil
(Bonded to the Outer Sheath)

Outer Sheath
Ø 7.00 mm PE

Technical Properties

Cable Weight 48 kg/km
Copper Weight 15.00 kg/km
Min. Bending Radius 30 mm
Max. Tensile Strength 120 N
Temperature Range -40 °C ... +70 °C
Packing 100 / 350 / 500 m

Electrical Properties

Impedance 75 ± 2 Ω
Capacitance 53 ± 2 pF/m
Velocity of Propagation 84 %
Insulation Resistance > 2 GΩxkm
Operating Voltage 1300 V
Test Voltage 3000 V
Inner Conductor DCR < 17.80 Ω/km

Attenuations (20°C)

5 MHz 1.40 dB/100m
50 MHz 4.10 dB/100m
230 MHz 8.20 dB/100m
470 MHz 12.30 dB/100m
860 MHz 16.90 dB/100m
1000 MHz 19.20 dB/100m
1200 MHz 21.90 dB/100m
2150 MHz 29.90 dB/100m
3000 MHz 36.20 dB/100m

Return Loss (20°C)

5-470 MHz > 26 dB
470-1200 MHz > 23 dB
1200-2000 MHz > 20 dB
2000-3000 MHz > 18 dB

Transfer Impedance

5-30 MHz ≤ 2.5 mΩ/m

Screening Attenuation

30-1200 MHz ≥ 95 dB
1200-2000 MHz ≥ 85 dB
2000-3000 MHz ≥ 75 dB

Standards

Screening Class Class A+
EN 50117-2-4

Euro Class

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