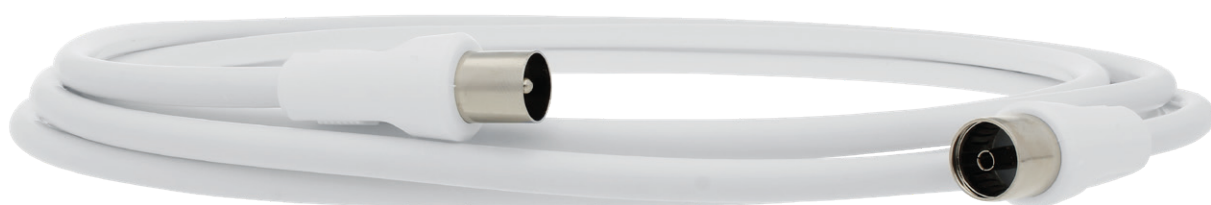


# TV CONNECTION CABLE



**HOME NETWORKS**

# DATASHEET

## INTRODUCTION

DKT now introduces a new series of halogen free connection cables. These have been developed to cope with the increasing number of sources of interference in subscriber home installations.

| Type no.      | Item no. | Length |
|---------------|----------|--------|
| ANT-1500-IEA  | 20142    | 1.5 m  |
| ANT-3000-IEA  | 20143    | 3 m    |
| ANT-5000-IEA  | 20144    | 5 m    |
| ANT-10000-IEA | 20145    | 10 m   |

## INTERFACES

| Construction data |      | ANT-1500-IEA          | ANT-3000-IEA | ANT-5000-IEA | ANT-10000-IEA |
|-------------------|------|-----------------------|--------------|--------------|---------------|
| Inner conductor   | Ø mm | CCS 0.8               |              |              |               |
| Dielectric        | Ø mm | PE 3.55               |              |              |               |
| First foil        |      | Bonded Al-foil        |              |              |               |
| Braid             |      | CCSn                  |              |              |               |
| Second foil       |      | Al-foil               |              |              |               |
| Outer sheath      | Ø mm | 5.9                   |              |              |               |
| Jacket material   |      | White LSOH            |              |              |               |
| Connectors        |      | IEC-female – IEC-male |              |              |               |

| Electrical data            | Frequency [MHz] | ANT-1500-IEA | ANT-3000-IEA | ANT-5000-IEA | ANT-10000-IEA |
|----------------------------|-----------------|--------------|--------------|--------------|---------------|
| Impedance                  | Ohm             | 7533         |              |              |               |
| Return loss [dB]           | 5 – 400         | > 20         |              |              |               |
|                            | 400 – 862       | > 16         |              |              |               |
|                            | 862 – 1000      | > 15         |              |              |               |
| Attenuation at 20°C [dB]   | 1000            | 0.7          | 1.3          | 2.1          | 4.1           |
| Screening attenuation [dB] | 30 – 1000       | > 85         |              |              |               |
|                            | 1000 – 2000     | > 75         |              |              |               |
|                            | 2000 – 3000     | > 65         |              |              |               |
| Transfer impedance         | 5 – 30          | < 5 mOhm/m   |              |              |               |

## Why Class A attenuation on cable shielding?

With increasing complexity in the transmitted signals, the services are far more sensitive to interference than before. With a screening effectiveness exceeding the requirements for Class A, the installation has a very high level of resistance to interference, which leads to less pixelation and signal outage. Problems can accelerate with LTE/4G signals if proper shielding is not applied.

## Why halogen-free cable?

Halogens are a group of environmentally damaging elements. Examples of halogens are chlorine and bromine. These elements are released in installations and can be inhaled by those in the immediate vicinity. These elements are released if there is a fire in an installation and can cause serious injury. This connection cable is manufactured without halogens, and thereby long-term damage as well as risks in case of fire are avoided.

## Advantages

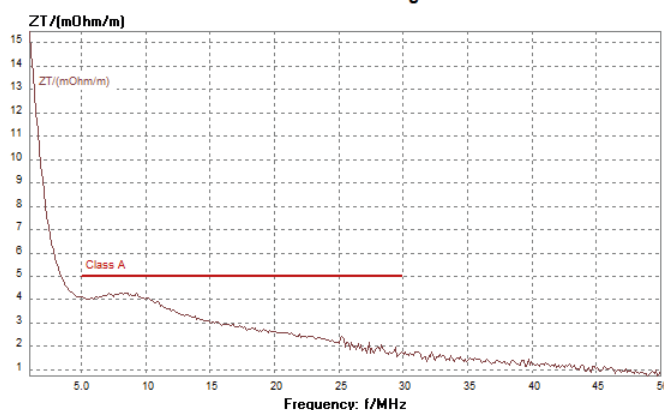
- High screening effectiveness is necessary to avoid interference
- No toxic fumes in case of fire

## Screening attenuation & Transfer impedance

The curves are measurements for screening attenuation and transfer impedance on the connecting cable.

Transfer Impedance (62153-4-3 Ed.1)

1.0 MHz - 50.0 MHz Test length: 0.96m



Screening Attenuation

1.0 MHz - 3.0 GHz Test length: 0.96m

