



modem connection cable

Product introduction

DKT now introduces a series of Class A connectivity cords with high quality F-connectors. The Class A cable ensures minimum level of noise from e.g. mobile networks and minimum emission from modem transmissions.

Type no.	Item no.	Length	Max attenuation
CC-1.5-TPE-F-S	20170	1.5 m	1.3 dB
CC-2-TPE-F-S	20171	2 m	1.5 dB
CC-2.5-TPE-F-S	20172	2.5 m	1.8 dB
CC-3-TPE-F-S	20173	3 m	2.0 dB
CC-3.5-TPE-F-S	20174	3.5 m	2.3 dB
CC-5-TPE-F-S	20175	5 m	3.0 dB
CC-7.5-TPE-F-S	20176	7.5 m	4.3 dB
CC-10-TPE-F-S	20177	10 m	5.5 dB



Technical specifications

Construction data		
Inner conductor	Ø mm	CCS 0.81
Dielectric	Ø mm	Foam PE 3.66
First overlapped foil		Al/PET/Al Bonded foil
First foil coverage / overlap	%	100 / 18
Braid		Al Braid Wire
2nd overlapped foil		Al/PET/Al Foil
2nd foil coverage / overlap	%	100 / 18
Outer sheath	Ø mm	TPE, Zero Halogen 6.20
Connectors		F-male - F-male
Electrical data		
Impedance	Ohm	75
Capacitance	pF	54
Return loss	dB	>20dB 5-1000MHz >15dB 1000-3000MHz
Attenuation at 20°C (dB)		See the data for the individual cable
Transfer impedance	5-30 MHz	< 5 mΩ/m, Class A†
Screening effectiveness	30-1000 MHz	> 95 dB, Class A† Typical >105 dB
Screening effectiveness	1-3 GHz	> 85 dB, Class A† Typical >100 dB

Parameters tested according to standards

† EN 60966-2-6: 2009 Screening efficiency
Transfer Impedance



additional information

Why Class A attenuation on cable shielding?

With frequency overlap between Cable TV and Lte services, the TV services are far more exposed 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.

SHIELDED AGAINST



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.

DKTCOMEGA

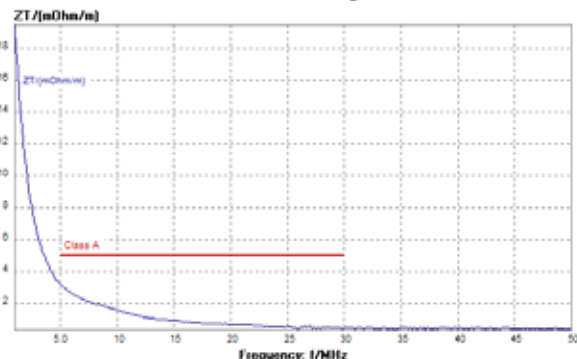
Screening attenuation & Transfer impedance

Cable assemblies with F-connectors are measured according to EN 60966-2-6, the plots are measurements of typical screening attenuation and transfer impedance. The CC-x-TPA-F-S cables are exceeding the Class A requirements in EN 60966-2-6.

Typical figures on Screening Attenuation from 30 to 1000MHz is below -105dB equivalent to the EN 50177-2-3 Class A++ requirements. At frequencies above 15MHz the typical figure on Transfer Impedance is <math><0.9\text{mm}\Omega/\text{m}</math>, equivalent to the EN 50177-2-3 Class A++ requirements

Transfer Impedance (62153-4-3 Ed.1) CC-1.5-TPE-F-S

1.0 MHz - 50.0 MHz Test length: 0.96m



Screening Attenuation CC-1.5-TPE-F-S

1.0 MHz - 3.0 GHz Test length: 0.96m

