



connection cable with ferrite beads

Product introduction

DKT now introduces a new series of connection cables, this is developed to face the problems in an ever increasement of the sources for interference at the subscribers home installations.

Type no.	Item no.	Length
TSF-A-1,5ZH	20160	1,5 m
TSF-A-3ZH	20163	3 m
TSF-A-5ZH	20165	5 m
TSF-A-10ZH	20167	10 m

Construction data		TSF-A
Inner conductor	Ø mm	CCS 1.02
Dielectric		PE 4.75
First overlapped foil		S-foil
Foil coverage	%	100
Braid		CCAM
Braid coverage	%	77
Outer sheath		6.8±0.2
Jacket material		Halogen-free PVC
Connectors		IEC-female - IEC-male

Electrical data		1.5/3/5/10 m
Impedance	Ohm	75±3
Return loss*		Cat. B
Attenuation at 20°C (dB)	5 MHz	0.1/0.2/0.3/0.6
	50 MHz	0.15/0.3/0.5/1.0
	100 MHz	0.25/0.5/0.8/1.6
	200 MHz	0.4/0.8/1.1/2.2
	300 MHz	0.55/1.1/1.5/3
	470 MHz	0.7/1.4/1.8/3.6
	862 MHz	0.95/1.9/2.6/5.2
	1000 MHz	1/2/2.7/5.4
Screening Effectiveness	30-1000 MHz	Class A†

Fulfilling standards

EN 50267, EN 50268 Smoke emission & fume density during fire

* Return loss: EN 50083-4

† Screening efficiency: EN 50083-2

Why ferrite attenuators?

This is because the cable's shield acts as an antenna. In other words, the cable's surface accumulates unwanted signals and transfers these to the recipient (receivers such as PCs, radios, TVs and video units). If the recipient's tuner is not sealed from such HF signals, then these signals will transfer from the cable's shield to the tuner. When a cable has ferrite attenuators, the unwanted signal will only accumulate on that part of the cable between the connecting plug and the ferrite attenuator.



Why Class A attenuation on cable shielding?

With increasing complexity in transmitted signals, the network is far more sensitive to the signals that penetrate the connection cable than before. With a screening effectiveness meeting the requirements for Class A, the installation have a very high level of resistance to interference, which leads to less pixelation and signal outage.

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 also released if there is a fire in an installation and can they cause serious injury. The connection cable is manufactured without halogens. This is to avoid long-term damage as well as that caused in cases of fire.

Advantages

- High screening effectiveness ensures minimum interference
- No toxic fumes in case of fire
- Ferrite beads reduces amount of disturbances reaching the TV

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