



Cable structure

Inner conductor diameter:
Conductor material:
Core insulation:
Core colours:

Screen over stranding element:
Outer sheath material:
Cable dimensions:
Outer sheath colour:

FTP FRNC +

0,52 mm
Copper, bare
Foam-skin-PE
whbu/bu, whog/og,
whgn/gn, whbn/bn
Polyester foil, alu-lined

coax 75 ohm +

0,81 mm
Copper, bare
Foam-skin-PE
White
Foil + braid
FRNC
total ca. 5,8 mm x 17,5 mm
Grey

EIB

0,8 mm
Copper, bare
Foam-skin-PE
rd, bk
Polyester foil, alu-lined

Electrical data

Characteristic impedance:

100 Ohm
± 15 ohm at 1 to 100 MHz

75 Ohm

100 Ohm

Conductor resistance:

-

≥ 36,0 Ohm/km

≥ 73,2 Ohm/km

Insulation resistance:

-

> 10,0 GOhm x km

> 10,0 GOhm x km

Loop resistance:

185 Ohm/km max.

54,0 nF/km max. (800 Hz)

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Mutual capacitance:

48,0 nF/km nom.

54,0 nF/km max. (800 Hz)

> 100,0 nF/km (800 Hz)

Rel. propagation velocity:

74 %

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Typical values FTP

Frequency (MHz)	10	16	62,5	100	200	300	450	600	1000
Attenuation (dB/100m)	5,8	7,2	14,2	18,2	26,1	32,2			
Next (db)	62,0	59,0	50,0	46,0	42,0	39,0			
ACR (db)	56,2	51,8	35,8	27,8	15,9	6,8			

Typical values Coax

Frequency (MHz)	15	100	200	300	950	1350	2000	2150	2400
Attenuation (dB/100m)	3,5	8,3	12,5	15,5	26,8	32,0	40,0	41,0	43,9

Technical data

Weight:

86,0 kg/km

Min. bending radius for laying:

45 mm

Operating temperature range min.:

-20°C

Operating temperature range max.:

+60°C

Caloric load, approx. value:

1,0 MJ/m

Copper value:

51,6 kg/km

Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 5, Flame-retardant acc. to IEC 60332-3, Smoke density acc. to IEC 61034, Halogen-free acc. to 60754-2, Corrosiveness acc. to EN50267-2-3

Application

The HELUKABEL® HOMEWAY HW4 cable is used for multimedia networking of homes and apartments. The coaxial element is designed for modern TV technology. The shielded pairs of cores are suited for both, PC networking and telephone services. The EIB bus distributes the desired EIB signals in the HOMEWAY network. The entire system consists of the cable, connection socket with inserts, a computing center and accessories.

Part no.

82832, HW4 FTP + coax 75 ohm + EIB FRNC