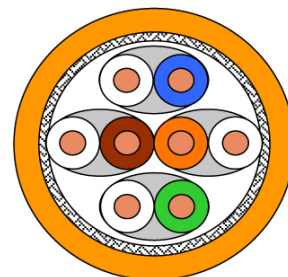


# DATASHEET

Art.-No.:MK7100.x

## Cat.7 Installation cable S/FTP 1000 AWG23, FRNC-B



### Product Description

Application	Primär (Campus), Sekundär (Riser), Tertiär (Horizontal)
	IEEE 802.5; IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
Standards	ISO/IEC 11801; EN50173; EN 50288-1, EN50288-10-1, IEC 61156-5, IEC60332-1
Flame resistance	Flame retardance: IEC 60332-1 Halogenfree: IEC 60754-2 Low smoke: IEC 61034

### Cable construction

Conductor	Bare copper wire AWG 23
Insulation	Foam-Skin Polyethylen, Ø 1.4 mm
Twisting	2 cores to the pair
Pair screen	AL-laminated plastic foil
Screen	copper braid, tinned
Sheath	halogenfree LSHF / FRNC-B, orange
Printing	MK7100: LANCABLE Cat.7 1000 AWG 23 S/FTP 4P FRNC-B ***MADE IN EUROPE*** MK7100DX: LANCABLE Cat.7 1000 AWG 23 S/FTP 2x4P FRNC-B ***MADE IN EUROPE***

### Mechanical characteristics

Bending radius	During installation 8 x D
	Installed cable 4 x D
Operation temperature range	-20°C to + 60°C
Storage temperature range	0°C to + 50°C

Art.No.	MK7100	File	MK7100.indd		
Description	Cat.7 Installation cable S/FTP 1000 AWG23, FRNC-B				
Created	Date	Last revision	Date	Proved	Date
Eugen Ptoszek	17.02.2016	BF	20.10.2016	EP	20.10.2016

*Ideal Technology has a policy of continuous improvement. Specifications are subject to change without notice.*

# DATASHEET

**Cat.7 Installation cable S/FTP 1000 AWG23, FRNC-B**

**Art.-No.:MK7100.x**

## Electrical characteristics (at 20°C ± 5°C)

Loop resistance	165 Ω/km
Resistance unbalance	2%
Insulation resistance (500 V)	≥ 2000 MΩ *km
Mutual capacitance at 800 Hz	44 nF/km
Capacitance unbalance (pair/ground)	≤ 1600 pF/km
Characteristic impedance (100) MHz	(100 ± 5) Ω
Nominal velocity of propagation (NVP)	0,75c
Propagation delay	≤ 535 ns/100 m
Delay skew	≤ 25 ns/100m
Test voltage (DC, 1 min) core /core und core/screen	1000 V
Transfer impedance ( mΩ / m )	Grade 2
	10 MHz 30 MHz
	30 mΩ/m 40 mΩ/m
Coupling attenuation	≥ 80 dB Type 2
Segregation classification acc. EN 50174-2	„d“

## Technical data

Art.No.	MK7100.x	MK7100DX.x
	4x2xAWG23	2x(4x2xAWG23)
Outer diameter	7.3 mm	7.3 x 15 mm
Fire load	585 MJ/km	1170 MJ/km
Weight	51 kg/km	102 kg/km
Copper content	26	52
Tensile force	100 N	200 N

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# DATASHEET

**Cat.7 Installation cable S/FTP 1000 AWG23, FRNC-B**

**Art.-No.:MK7100.x**

**Electrical data (nominal) according to Cat.7 (at 20°C)**

f (MHz)	Dämpfung (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Rückflußdämpfung (dB)
1	1.8	100	97	98	95	105	103	22
10	5.4	100	97	95	92	85	82	25
100	17.4	100	97	83	80	65	62	20
200	25.0	92	89	67	64	59	56	18
250	28.1	90	87	62	59	57	54	17
500	37.6	87	84	49	46	51	48	17
600	44.8	85	82	40	37	49	46	17
1000	58.4	82	79	24	21	45	42	16

## Package information



500/1000 m drum

## Order data

Art. No.	Type
MK7100.x	Cat.7 Installation cable S/FTP 1000 AWG23, FRNC-B
MK7100DX.x	Cat.7 Installation cable S/FTP 1000 AWG23, FRNC-B (duplex)

Art.No.	MK7100	File	MK7100.indd		
Description	Cat.7 Installation cable S/FTP 1000 AWG23, FRNC-B				
Created	Date	Last revision	Date	Proved	Date
Eugen Ptoszek	17.02.2016	BF	20.10.2016	EP	20.10.2016