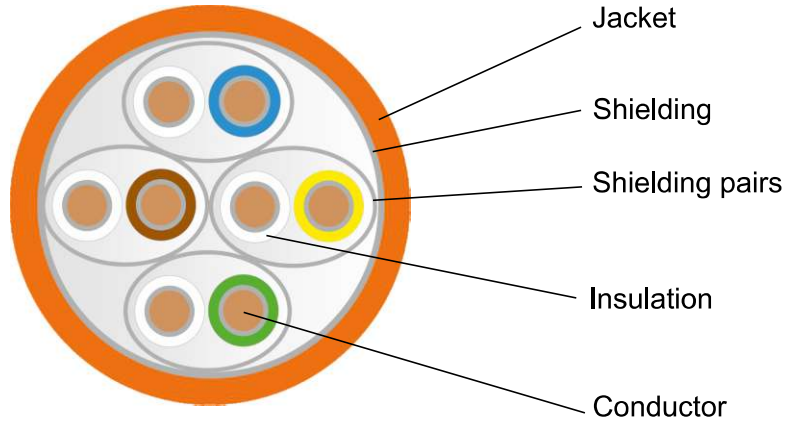
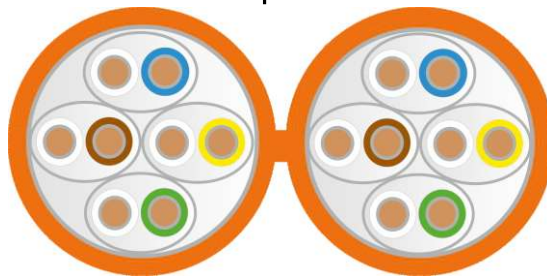


Technical datasheet



Duplex:




Data cable EasyLan®

F/FTP Cat.6_A 500 MHz

4x2xAWG 23/1 FRNC

Order Codes: see last page


Data cable for transmission of analogue and digital signals for cabling within primary, secondary and tertiary area.

Index	Revision code	Date	Name	drawn	08.12.2021	LE	 EasyLan® ...for a better connectivity
				appr.	08.12.2021	MJ	
				Titel: Data cable EasyLan F/FTP AWG23 500MHz			
				Drawing number: ZN-DK210307			
				Dimensions: mm			
				Original: DIN A4			
				Sheet 1 of 4			

Technical Data

Construction	
Signal conductor	AWG23/1, bare
Insulation	SFS-PE
Color Code	IEC 708-1
Foil pair screen	Plastic laminated aluminium foil
Braid screen	Plastic laminated aluminium foil
Jacket	FRNC
Color	orange, RAL 2003
Outer diameter simplex, Fire class Dca	7,4 mm +/- 0,2 mm
Outer diameter duplex, Fire class Dca	15,0 x 7,4 mm +/- 0,2 mm
Outer diameter simplex, Fire class Cca	7,5 mm +/- 0,2 mm
Outer diameter duplex, Fire class Cca	15,0 x 7,5 mm +/- 0,2 mm
Mechanical Data	
Temperature range	
Operation	-20°C up to +60°C
Installation	0°C up to +50°C
Minimum bending radius installation	4x cable-Ø
Minimum bending radius for pulling during installation	8x cable-Ø
max. tensile strength	100 N

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<small>d</small> Änderung 25.08.2023 MW <small>c</small> Änderung 28.02.2023 MW <small>b</small> Änderung 17.02.2023 MW <small>a</small> Neuerstellung 08.12.2021 LP	drawn	08.12.2021	LE	 EasyLan [®] ...for a better connectivity	
	appr.	08.12.2021	MJ		
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	Drawing number: ZN-DK210307				Original: DIN A4
Index	Revision code	Date	Name	Sheet 2 of 4	

Technical Data

Electrical Data	
Loop resistance	<= 150 Ohm / km
Insulation resistance	> 5000MOhm*km
Capacity	nom. 45nF / km
Transfer impedance at 10MHz	<100 mOhm / m
Test voltage	700V AC
NVP	ca. 78%
Propagation delay	425ns / 100m
Delay skew	10 ns / 100m
Coupling attenuation	> 65 dB Type 2
Copper number simplex	22
Copper number duplex	44
Fire class	Dca s2 d2 a1 acc. to EN 50399 Cca s1a d1 a1 acc. to EN 50399

Applications:

IEEE 802.3 : Ethernet 10Base-T ; Fast Ethernet 100Base-T ; Gigabit Ethernet 1000Base-T ; 10GBase-T
 IEEE 802.5 : ISDN; FDDI; ATM; Cable sharing
 IEEE 802.3at : PoE, PoE+ suitable
 IEEE 802.3bt : PoE++ suitable

Standards:

EN 50288-5-1 ; EN 50288-10-1 ; EN 50173 ; EN 50174-2 ; ISO/IEC 11801 2. Ausgabe ; IEC 61156-5 ;
 TIA/EIA-568-B.2-10

Chemical Properties:

RoHS 2011/95/EU ; IEC 60811-2-1 (IRM 902, 4h bei 70°C) Brandlast 0,160kWh/m


Flame resistance:

EN 60332-1-2 ; EN 60332-3-24 ; EN 50399 ; EN 50575 ; EN 61034 ; EN 50267 ; IEC 60754-2 ; IEC 61034
 EN 13501-6

Printing Text:

EasyLan® F/FTP – AWG 23/1 – Kat. 6A – 500 MHz – >> fire class << – FRNC – RoHS –
 www.easylan.de >> Metrierung und Chargen-Nummer <<

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Sheet 3 of 4										


Technical Data

Transmission Performance:

f in MHz	Attenuation (dB/100m) nom.	NEXT (dB) nom.	ACR (db/100m) nom.	ELFEXT (dB/100m) nom.	RL (dB) nom.
1	1,9	100	98	103	24
4	3,5	100	96	103	28
10	5,6	100	94	98	30
31,25	9,8	100	90	91	30
62,5	14,2	100	86	87	30
100	17,8	98	80	80	30
200	25,1	93	68	72	28
300	31,0	88	57	70	26
400	36,4	85	49	68	24
500	41,8	83	41	62	23

Order Codes:

EasyLan® data cable F/FTP simplex AWG23 500MHz Dca s2 d2 a1	CEFF1212K
EasyLan® data cable F/FTP duplex AWG23 500MHz Dca s2 d2 a1	CEFF1212KD
EasyLan® data cable F/FTP simplex AWG23 500MHz Cca s1a d1 a1	CEFF1214K
EasyLan® data cable F/FTP duplex AWG23 500MHz Cca s1a d1 a1	CEFF1214KD

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