

PRODUCTPROFILE

Catalogue number: 047A0019

Partnumber: 776470



Related documents:

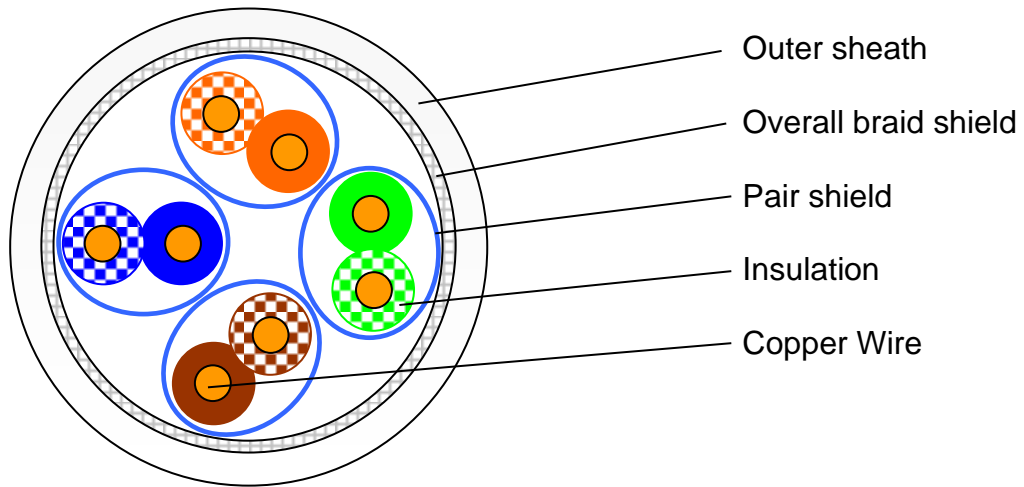
DS_SFTP_4PR23FRNC_DCA_EN

Kabeldatenblatt

TWISTED PAIR CABLE

S/FTP Cat.7 1000 MHz 4x2xAWG 23/1 FRNC DCa

047A0019



Standards

EN 50288-4-1 ; EN 50173 ; EN 50174-2 ; ISO/IEC 11801 2nd edition ; IEC 61156-5

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

Structure

Conductor	AWG 23/1, bare
Insulation	SFS-PE foamed
Core diameter	1 .37 ± 0.02 mm
Colour code	IEC 708-1
Pair shielding	Aluminium compound foil
Shielding	Copper braid, multiple wire 0.10 vz
Outer sheath	halogen-free compound (FRNC)
Sheath colour	orange , RAL 2003
Outer diameter	7.6 ± 0.2 mm

Mechanical properties

-Min. bending radius fixed (static):	4 x outer diameter
-Min. bending radius for installation (dynamic):	8 x outer diameter
-Max. traction:	110 N

Thermal properties

-Transport and storage	- 20 °C to + 60 °C
-Location	0 °C to + 50 °C
-operation	- 20 °C to + 60 °C

Chemical properties

RoHS 2011/95/EU ; IEC 60811-2-1 (IRM 902, 4h at 70°C)

Fire behaviour

EN 60332-1-2 ; EN 60332-3-24 ; EN 50399 ; EN 50575 ; EN 61034 ; EN 50267 ; IEC 60754-2 ; IEC 61034
 EN 13501-6 Class DCa-s1 d2 a1
 Fire load: 0.160 kWh/m

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Electrical properties

Loop resistance	max. 150 Ohm / km according to VDE 0812
Insulation resistance	min. 5 GOhm x km at +20°C
Operating capacity	nom. 45 nF / km
characteristic impedance at 100MHz	100 Ohm ± 5 Ohm
Test voltage	700 V / AC
Propagation speed	approx. 0.79 c
Signal delay	max. 425 ns/100m
Skew	< 8 ns/100m
Coupling attenuation	> 80 dB, type 1B
Coupling resistance	< 8 mOhm/m at 10MHz, Grade 1
Separation class	D

Transmission properties

f in MHz	Attenuation/ Attenuation (dB/100m) nom.	NEXT (dB) nom.	ACR (dB/100m) nom.	ELFEXT (dB/100m) nom.	RL (dB) nom.
1	1,8	105	103	95	25
4	3,3	105	102	93	28
10	5,3	105	100	92	30
16	6,7	105	98	91	32
20	7,5	105	97	90	34
31,25	9,6	105	95	86	35
62,5	13,8	103	89	82	34
100	17,3	100	83	77	33
155	22,6	99	76	73	30
200	24,8	98	73	70	29
300	30,7	97	66	67	27
400	35,8	96	60	64	26
500	39,7	93	53	62	24
600	44,2	90	46	60	23
800	50,8	88	37	56	22
900	56,0	85	29	53	21
1000	59,0	82	23	50	20

Form of delivery and order numbers

1000m disposable drum:	047A0019-1000
500m disposable drum:	047A0019-500
300m REELEX Box 20 inch	047A0019-300

While the information has been carefully prepared to the best of our knowledge, nothing herein is intended as representation or warranty by us and no statement herein should be construed as a recommendation to infringe any existing patents. In an effort to improve our products, we reserve the right to make any changes deemed necessary.

Signed	Date	Released	Date	Rev.	Change number	Name	Date
R.Mees	22.09.2020	F.Kohlert	18.10.2020	003		R.Mees	20.11.2020