

PRODUCTPROFILE

Catalogue number: 047A0025

Partnumber: 776475

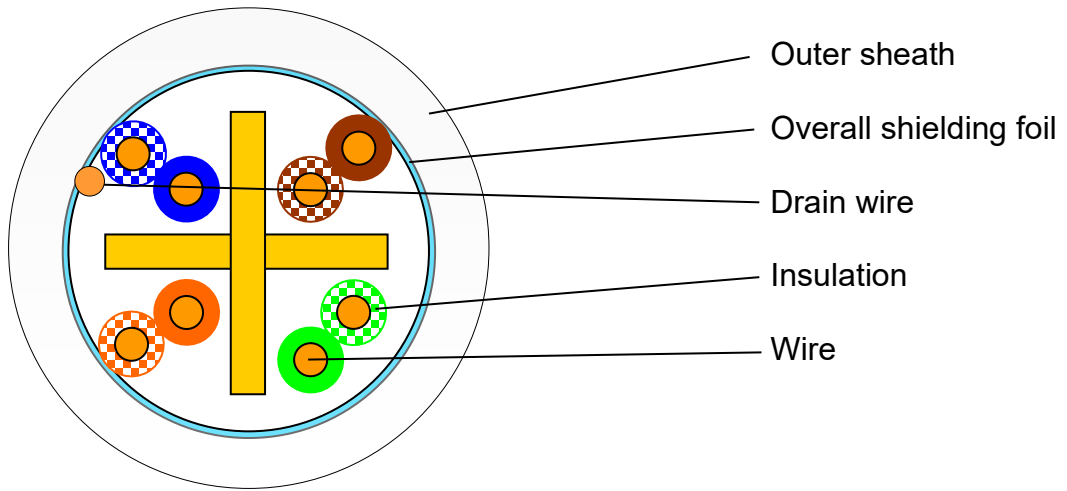
Related documents:

DS_FUTP_6A4PR23LSOH_DC_OE Kabeldatenblatt

TWISTED PAIR CABLE

F/UTP Cat.6a 500 MHz 4x2xAWG 23/1 FRNC DCa

047A0025



Standards

ISO/IEC 11801 2nd edition ; IEC 61156-5 Ed. 3.0 ; EN 50173 ; EN 50174-2 ; EN 50288-5-1 ; EN 50288-10 ; TIA/EIA-568-B.2-10

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
Core diameter ¹	.12 ± 0.02 mm
Colour code	IEC 708-1
pair shielding-	
Overall shielding	Aluminium compound foil
Outer sheath halogen-free	compound (FRNC)
Sheath colour orange	white
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 ; EN 50575 ; EN 61034 ; EN 50267 ; IEC 60754-2 ; IEC 61034 EN 13501-6 Class DCa -s1 d1 a1
 Fire load: 0.150 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. 0.74 c
Signal delay	max. 480 ns/100m
Skew	< 25 ns/100m
Coupling attenuation	> 55 dB, type 2
Coupling resistance	< 100 mOhm/m at 10MHz, Grade 2
Separation class	C

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	1,7	85	83	90	24
4	3,3	80	77	80	27
10	5,2	75	70	73	30
16	6,7	70	63	68	30
20	7,5	68	61	66	30
31,25	9,4	66	57	63	30
62,5	13,4	64	51	59	30
100	17,0	62	45	54	28
155	20,9	57	36	52	25
200	23,8	55	31	48	24
250	26,3	53	27	47	23
350	31,6	51	19	44	22
400	33,4	50	17	41	21
500	38,3	48	10	38	20

Form of delivery and order numbers

1000m disposable drum:	047A0025-1000
500m disposable drum:	047A0025-500
300m REELEX Box 20 inch	047A0025-300

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