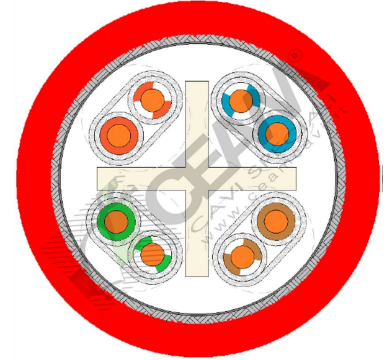


DOC: documento	1512.2.1	cause of release: emissione	<input type="checkbox"/> information informazione	<input checked="" type="checkbox"/> definitive definitiva	ITEM CODE: codice articolo	0502844
ITEM DESCRIPTION: descrizione articolo						
NETBUS IE LANFIRE PH120 SF/UTP FRNC-LSZH 4x2xAWG22/1 CAT.6 fire resistant PH120 ETHERNET™ fire resistant cable (120min) for fixed application						
USE: impiego	<input checked="" type="checkbox"/> indoor interno edificio <input type="checkbox"/> outdoor limited esterno limitato <input type="checkbox"/> outdoor direct burial esterno interrato <input type="checkbox"/>	INSTALLATION: posa	<input checked="" type="checkbox"/> fixed fissa <input type="checkbox"/> flexible limited flessibile limitata <input type="checkbox"/> dynamic (drag chain) mobile in catena <input type="checkbox"/> dynamic (torsion) mobile in torsione	INFORMATION: informazioni	<input checked="" type="checkbox"/> 2015/863/EC RoHS compliant <input checked="" type="checkbox"/> 2014/35/EU LVD compliant <input checked="" type="checkbox"/> CE marking <input type="checkbox"/>	

Constructive characteristics

Inner conductor	solid bare copper wire 0,34 mm ² (22/1 AWG)
Insulation	polyolefin (RJ45 plug compatible)
Insulation colours	blue, white-blue, orange, white-orange, green, white-green, brown, white-brown
Fire barrier	each insulated wire wrapped with special mineral glass tape with overlap
Core assembly	twisted to pairs: (1) blue/white-blue, (2) orange/white-orange, (3) green/white-green, (4) brown/white-brown
Pair separation	special glass fibre tape with overlap
Assembly of elements	the four special pairs stranded together around a central halogen free cross separator
Global Shield	- metallic tape with overlap - bare copper wire braid 65% nom. coverage
Outer jacket	LSZH flame retardant and not corrosive
Jacket diameter (nom)	10,6 mm (± 0,30 mm)
Jacket colour	red similar RAL3000
Weight (approx.)	155 kg/km
Marking (ink jet)	according to CEAM's specification



Electrical and transmission properties @ 20°C

Max DC conductor resistance	59,4 Ω/km
Max DC resistance unbalance	2 %
Capacitance core/core (nom)	58 pF/m
Characteristic impedance	100 Ω (± 15%)
Propagation velocity (approx.)	66% c @ 100 MHz
Max delay skew	45 ns/100m @ 100 MHz
Dielectric test voltage	0,7 kVac / 1 min (core/core and core/shield)
Min insulation resistance	5,0 GΩ x km

Freq	Attenuation std	Attenuation before test EN50200	Attenuation after test EN50200	PS Next std	PS Next before test EN50200	PS Next after test EN50200	PS EI- Fext std	PS EI-fext before test EN50200	PS EI-fext after test EN50200	Return Loss std	Return Loss typical	Return loss after test EN50200
[MHz]	max[dB/100m]	[dB/100m]	[dB/100m]	min[dB]	[dB]	[dB]	min[dB/100m]	[dB/100m]	[dB/100m]	min[dB]	[dB]	[dB]
1	(2,1)	1,9	2,1	72,3	80	77	64,0	75	72	- - -	25	23
4	3,8	3,6	3,8	63,3	74	71	55,0	70	67	23	28	26
10	6,0	5,6	6,0	57,3	70	67	47,0	66	63	25	30	27
16	7,6	7,1	7,6	54,2	66	63	43,0	63	60	25	30	27
20	8,5	8,0	8,5	52,8	63	60	41,0	58	55	25	29	27
31,25	10,7	10,2	10,7	49,9	61	59	37,1	53	50	23,6	30	27
62,5	15,4	14,6	15,4	45,4	60	57	31,1	49	46	21,5	29	24
100	19,8	18,7	19,8	42,3	53	50	27,0	45	42	20,1	27	22
125	22,4	21,0	22,4	40,8	52	49	25,1	43	40	19,4	26	21
155,52	25,2	23,8	25,2	39,4	50	47	23,2	39	36	18,8	25	20
200	29,0	27,3	29,0	37,8	44	41	21,0	35	32	18,0	25	20
250	32,8	30,9	32,8	36,3	42	39	19,0	31	28	17,3	23	19

Fire performance

Flame retardant	compliant IEC 60332-1-2 Std.
Fire retardant	compliant IEC 60332-3-24 Std.
Fire resistant	compliant EN 50200 Std. (where applicable): low voltage test 125 Vac PH120 classification acc. to EN 50289-4-16 compliant EN 50200 Std. (where applicable): data electrical signal test PH120 acc. to EN 50289-4-16 compliant IEC 60331-23 FE90 Std.
Determination of the amount of halogen acid gas	compliant EN 50267-2-1 and IEC 60754-1 Std.
Determination of degree of acidity of gases	compliant EN 50267-2-2 and IEC 60754-2 Std.
Smoke density	compliant IEC 61034-2 Std.
Heat release (approx.)	1290 MJ/Km (0,357 kWh/m)

Approvals

PATENT	REG. NO. EP3459085B1
CPR EU 305/11	compliant EN 50575:2014 + A1:2016 class B2ca-s1a,d0,a1 - Notified Body 0987

Standard reference

IEC 61156-5; EN 50288-5-1; EN50289-4-16; ISO/IEC 11801; EN 50173; EN50200; IEC 60331-23

note/s:

- free of paint wetting impairment substance (e.g. silicone)

DATE: data	30/11/2020	FILLED IN BY: 36 compilato	Technical dept. - DM	AUTHORIZED: visto	
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TECHNICAL CABLE DATA SHEET

SCHEMA TECNICA DI PRODOTTO

DOC: <i>documento</i>	1512.2.1	cause of release: <i>emissione</i>	<input type="checkbox"/> information <i>informazione</i>	<input checked="" type="checkbox"/> definitive <i>definitiva</i>	ITEM CODE: <i>codice articolo</i>	0502844
ITEM DESCRIPTION: <i>descrizione articolo</i>	NETBUS IE LANFIRE PH120 SF/UTP FRNC-LSZH 4x2xAWG22/1 CAT.6 fire resistant PH120 ETHERNET™ fire resistant cable (120min) for fixed application					
USE: <i>impiego</i>	<input checked="" type="checkbox"/> indoor interno edificio <input type="checkbox"/> outdoor limited esterno limitato <input type="checkbox"/> outdoor direct burial esterno interrato <input type="checkbox"/>	INSTALLATION: <i>posa</i>	<input checked="" type="checkbox"/> fixed fissa <input type="checkbox"/> flexible limited flessibile limitata <input type="checkbox"/> dynamic (drag chain) mobile in catena <input type="checkbox"/> dynamic (torsion) mobile in torsione	INFORMATION: <i>informazioni</i>	<input checked="" type="checkbox"/> 2015/863/EC RoHS compliant <input checked="" type="checkbox"/> 2014/35/EU LVD compliant <input checked="" type="checkbox"/> CE marking <input type="checkbox"/>	

Other properties

Max operating voltage	110 Vac / Vdc
Temperature rating (fixed)	-20°C / +70°C
Min bend radius (fixed)	160 mm (15 x outer diameter)
Min bend radius (flexing)	not admitted
Max compression admitted on the cable	50 kg/10cm
Max pulling force	150 N

note/s:
- free of paint wetting impairment substance (e.g. silicone)

DATE: <i>data</i>	30/11/2020	FILLED IN BY: <i>36 compilato</i>	Technical dept. - DM	AUTHORIZED: <i>visto</i>	
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