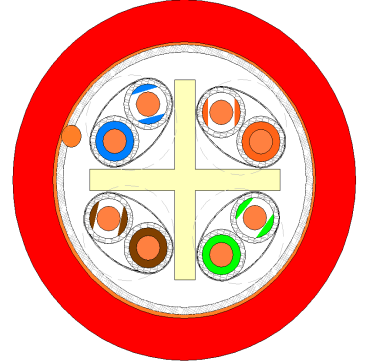


DOC: documento	394.13.1	cause of release: emissione	<input checked="" type="checkbox"/> information informazione	<input type="checkbox"/> definitive definitiva	ITEM CODE: codice articolo	0502850
ITEM DESCRIPTION: descrizione articolo						
NETBUS IE LANFIRE PH120 F/UTP FRNC-LSZH fire resistant 4x2xAWG23/1 CAT. 5e ETHERNET™ fire resistant cable (120min) for fixed installation						
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"/>	^{2590e}	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 0,25 mm ² (23/1 AWG)
Insulation	polyolefin - RJ45 plug compatible
Insulation colours	blue, white-blue, orange, white-orange, green, white-green, brown, white-brown
Fire barrier	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	polyolefin tape
Assembly of elements	pairs stranded together around a central cross separator filler
Separation	glass fiber tape
Global Shield	- solid bare copper drain wire 26/1AWG - metal tape with overlap
Outer jacket	LSZH flame retardant and not corrosive
Jacket diameter (nom)	8,70 mm
Jacket colour	red similar RAL 3000
Weight (approx.)	100 kg/km
Marking (ink jet)	according to CEAM specification



Electrical and transmission properties @ 20°C

Max DC conductor resistance	94,2 Ω/km
Capacitance core/core (nom)	65 pF/m
Characteristic impedance	100 Ω (± 15%)
Propagation velocity (approx.)	66 %c @ 100 Mhz
Propagation delay	5,1 ns/100m
Max delay skew	45 ns/100m
Dielectric test voltage	0,7 kVac / 1 min (core/shield)
Min insulation resistance	5,0 GΩ x km

Freq	Attenuation std	Att. before test EN50200	Att. after test EN50200	Next std	Next before test EN50200	Next after test EN50200	EI- Fext std	EI-fext before test EN50200	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	1,9	65,3	76	76	63,8	80	78	- - -	25	23
4	4,0	3,6	3,7	56,3	62	58	51,8	63	60	23	28	24
10	6,3	5,7	5,9	50,3	56	52	43,8	55	54	25	30	26
16	8,1	7,3	7,9	47,2	53	51	39,7	52	52	25	30	26
20	9,0	8,1	8,7	45,8	50	50	37,8	48	47	25	29	26
31,25	11,4	10,3	11,1	42,9	46	46	33,9	45	43	23,6	27	24
62,5	16,5	14,9	16,3	38,4	42	41	27,9	36	32	21,5	25	22
100	21,4	19,3	21,1	35,3	38	38	23,8	32	29	20,1	24	21

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 acc. to EN 50289-4-16 Std. compliant EN 50200 Std. (where applicable): data signal test PH120 acc. to EN 50289-4-16 Std. 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.)	850 MJ/km (0,236 kWh/m)

Approvals

UL/CSA	N/A
PATENT	REG. NO. EP3459085B1
CPR EU 305/11	compliant EN 50575:2014 + A1:2016 class Cca-s1,d0,a1 - Notified Body 0987

Standard reference

IEC 61156-5; EN 50288-2-1; EN50289-4-46; ISO/IEC 11801; EN 50173; EN50200; IEC 60331-23

note/s:
- free of paint wetting impairment substance (eg. Silicone)

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

SCHEDA TECNICA DI PRODOTTO

DOC: <i>documento</i>	394.13.1	cause of release: <i>emissione</i>	<input checked="" type="checkbox"/> information <i>informazione</i>	<input type="checkbox"/> definitive <i>definitiva</i>	ITEM CODE: <i>codice articolo</i>	0502850
ITEM DESCRIPTION: <i>descrizione articolo</i>	NETBUS IE LANFIRE PH120 F/UTP FRNC-LSZH fire resistant 4x2xAWG23/1 CAT. 5e ETHERNET™ fire resistant cable (120min) for fixed installation					
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"/>	^{2590e}	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)	15 x outer diameter [mm]
Min bend radius (dynamic)	not admitted
Max compression admitted on the cable	50 Kg/10cm
Max pulling force	100 N

note/s:
- free of paint wetting impairment substance (eg. Silicone)

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