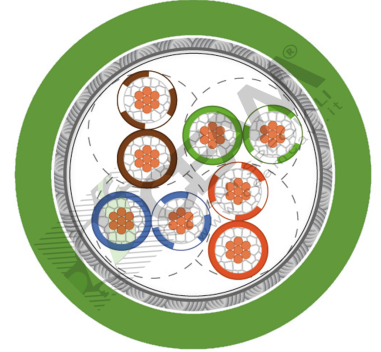


DOC: documento	751.2.0	cause of release: emissione	<input checked="" type="checkbox"/> information informazione	<input type="checkbox"/> definitive definitiva	ITEM CODE: codice articolo	0502049
ITEM DESCRIPTION: descrizione articolo						
NETBUS IE F5P4 SF/UTP PUR AWM21576 4x2x26/7AWG CAT.5e (INDUSTRIAL ETHERNET™ cable) for fixed and flexible (non-continuous) application						
USE: impiego	<input checked="" type="checkbox"/> indoor interno edificio <input checked="" type="checkbox"/> outdoor limited esterno limitato <input type="checkbox"/> outdoor direct burial esterno interrato <input type="checkbox"/>	0791e	INSTALLATION: posa	<input checked="" type="checkbox"/> fixed fissa <input checked="" 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	stranded bare copper wires 0,14 mm ² (26/7 AWG)
Insulation	foam skin polyethylene
Insulation diameter (nom.)	0,95 mm
Insulation colours	blue, white-blue, orange, white-orange, green, white-green, brown, white-brown
Core assembly	twisted to pairs (1) blue/white-blue - (2) orange/white-orange - (3) green/white-green - (4) brown/white-brown
Assembly of elements	pairs stranded together
Separation	non-woven (PET/PA) tape with overlap
Shield	- aluminium/polyester (AL/PET) tape with overlap - AL surface outside - tinned copper wire braid 85% nom. coverage
Separation	polyester (PET) tape with overlap
Outer jacket	PUR halogen free and flame retardant
Jacket diameter (nom.)	6,10 mm (± 0,30 mm)
Jacket colour	green similar RAL6018
Weight (approx.)	45 kg/km
Marking (ink jet)	according to CEAM specification


Electrical and transmission properties @ 20°C

Max DC conductor resistance	142,0 Ω/km
Capacitance core/core (nom)	48 pF/m
Capacitance unbalance	1600 pF/Km
Characteristic impedance	100 Ω (± 15%) (1 MHz ÷ 100 MHz)
Propagation velocity (approx.)	75% c @ 100 MHz
Propagation delay	500 ns/100m @ 100 MHz
Max delay skew	20 ns/100m @ 100 MHz
Dielectric test voltage	3 kVac / 1 min (core/core)
Dielectric test voltage	3 kVac / 1 min (core/shield)
Min insulation resistance	5,0 GΩ x km
Transfer impedance	10 mΩ/m @ 1 MHz; 2 mΩ/m @ 10 MHz; 1 mΩ/m @ 30 MHz; 0,6 mΩ/m @ 100 MHz

Freq	Attenuation std	Attenuation typical	Next std	Next typical	Ps Next std	Ps Next typical	Ps EI-Fext std	Ps EI-Fext typical	Ps Acr std	Ps Acr typical	Return Loss std	Return Loss typical
[MHz]	max[dB/100m]	[dB/100m]	min[dB]	[dB]	min[dB]	[dB]	min[dB/100m]	[dB/100m]	min[dB/100m]	[dB/100m]	min[dB]	[dB]
1	3,2	2,6	65,3	72	62,3	69	61,0	69	59,1	66,5	---	29
4	6,0	5,2	56,3	64	53,3	61	49,0	56	47,3	55,8	23,0	30
10	9,5	8,4	50,3	59	47,3	56	41,0	50	37,8	47,6	25,0	31
16	12,1	11,0	47,2	57	44,2	54	36,9	45	32,1	43,0	25	31
20	13,6	12,5	45,8	55	42,8	52	35,0	41	29,2	39,5	25	31
31,25	17,1	16,0	42,9	51	39,9	48	31,1	38	22,8	32,0	23,6	27
62,5	24,8	23,6	38,4	46	35,4	43	25,1	29	10,6	19,4	21,5	26
100	32,0	29,9	35,3	44	32,3	41	21,0	26	0,3	11,1	20,1	25
155,52	---	37,4	---	41	---	38	---	24	---	0,6	---	23
200	---	42,8	---	38	---	35	---	23	---	---	---	22

Fire performance

Flame retardant	compliant UL 1581 §1090, §1100 (FT2) and IEC 60332-1-2 Std.
Determination of the amount of halogen acid gas	compliant EN 50267-2-1 and IEC 60754-1 Std.
Heat release (approx.)	590 MJ/Km (0,163 kWh/m)

Approvals

UL/CSA	insulation compliant AWM Style 11117 - 1000V/80°C jacket compliant AWM Style 21576 - 1000V/80°C
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Standard reference

IEC 61156-3; EN50288-2-2

note/s:

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

DATE: data	18/03/2019	FILLED IN BY: 11 compilato	Technical dept. - AB	AUTHORIZED: visto	
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TECHNICAL CABLE DATA SHEET

SCHEMA TECNICA DI PRODOTTO

DOC: <i>documento</i>	751.2.0	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>	0502049
ITEM DESCRIPTION: <i>descrizione articolo</i>						
NETBUS IE F5P4 SF/UTP PUR AWM21576 4x2x26/7AWG CAT.5e (INDUSTRIAL ETHERNET™ cable) for fixed and flexible (non-continuous) application						
USE: <i>impiego</i>	<input checked="" type="checkbox"/> indoor interno edificio <input checked="" type="checkbox"/> outdoor limited esterno limitato <input type="checkbox"/> outdoor direct burial esterno interrato <input type="checkbox"/>	0791e	INSTALLATION: <i>posa</i>	<input checked="" type="checkbox"/> fixed fissa <input checked="" 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	125 V (not for power purposes)
Max rating voltage	1000 V (UL)
Temperature rating (fixed)	-20°C / +80°C
Temperature rating (flexing)	-20°C / +50°C
Min bend radius (fixed)	8 x outer diameter [mm]
Min bend radius (flexing)	10 x outer diameter [mm]
Max jacket adhesiveness	40 N on 50 mm of jacket
Max pulling force	120 N
Oil resistance	compliant IEC 60811-2-1, ASTM-Oil 1 and ICEA S-82-552 Std.
UV resistance	compliant UL 1581 §1200 Std.
Mud resistance	compliant NEK 606 Std.
Ozone resistance	compliant VDE 0472 par. 1 Std.
Microbe resistance	compliant VDE 0282/10 Std.
Saturated hydrocarbons resistance	good (diesel, kerosene, petrol ether)

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

DATE: <i>data</i>	18/03/2019	FILLED IN BY: <i>compilato</i>	Technical dept. - AB	AUTHORIZED: <i>visto</i>	
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