

# Trunk Cable Compact Class E/EA, 6x(4P 23AWG) 900MHz

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## Trunk Cable Compact Class E/EA, 6x(4P 23AWG), 900MHz

Trunk Cable to be used for datacenter solutions. Production according customer requirements based on the following criterias:

- customized lengths up to 80m
- wiring TIA 568A or B
- individual stepping and break-out lengths (side A/B)
- customized labeling on both ends
- module-module or module-plug configuration
- with Cat6 or 6A modules available
- cables Cat7

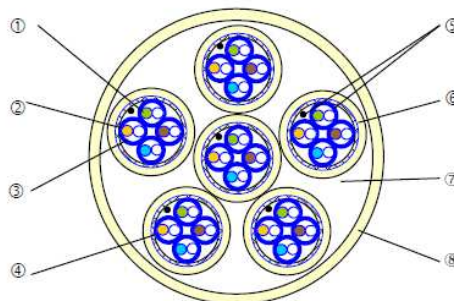
### Features

- Trunk cable fulfills the requirements of Class E/EA (250/500MHz) according to the EN 50173-5 and ISO/IEC 11801 2.2.
- Modules complies with Category 6/6A specifications of the EN 50173-1, EN 50173-5; ISO/IEC 11801 Ed. 2.2, IEC 61156-6, EN 50288-4-2
- Tested according to IEC 61935-2
- Each individual trunk cable is factory-tested
- Can also be used as Cat5e/6 (backwards compatible)
- Individual produced according to configured requirements
- Cable characteristics defined up to 900MHz
- Compatible with PoE & PoE+ applications
- Labelling at both cable ends according to individual requirements
- Characteristic Impedance 100 ohm +/- 5 ohm @ 100MHz
- Cable Cat.7 S/FTP LSOH version

### Cable construction

#### Colour code

Blue+White/Blue  
 Orange+White/Orange  
 Green+White/ Green  
 Brown+White/ Brown



1	Conductor diameter	Ø 23AWG / Ø 0.560mm	5	Shield	Copper braid and continuity wire
2	Insulation	Ø PE< 1,45mm	6	Sheath material	LSOH
3	Cable assembly	Pairs (number of pairs:4)	7	Cable	6x4 P sheathed
4	Individual screen around each pair	Alu/ Polyester tape conductor	8	Sheath material	LSOH

### Directive / Standard

Applications	IEEE 802.3; 10Base-T; 100Base-TX; 1000Base-T ; 10GBase-T IEEE 802.5 / FDDI / ATM / RNIS
Cable	IEC 61156-5 ed.2 / EN 50288-4-1
Cabling system standard	ISO 11801 2 <sup>nd</sup> edition / EN 50173-1 / EN 50173-5
Cabling system installation standards	EN 50174
Directive	RoHS 2002/95/EC

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### Fire resistance

No flame propagation	NF C 32-070 2.1 (C2) / IEC 60332-1 / EN 60332-1
No fire propagation	NF C 32-070 2.2
Low smoke opacity	IEC 61034-2 / EN 61034-2
Low gas corrosivity	IEC 60754-2 / EN 50267-2-2 / EN 50267-2-3
Low toxicity	IEC 60754-1 / EN 50267-1

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### Additional information and references

Type	Reference	Colour	Max diameter mm	Weight Kg/km	Max pulling tension (N)
Bundle 6x4 P S/FTP Cat.7 LSOH	Tbd	Grey RAL 9001	24.00	410	4P cable 95 Complete cable 570

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### Electrical Characteristics at 20°C

Complete conductor resistance		$\leq 300\Omega / \text{km}$
Resistance unbalance		$\leq 2\%$
Dielectric strength	Continuous current	1kV during 1 minute= no breakdown
Insulation resistance	(500 V)	$\geq 5000\text{M}\Omega.\text{km}$
Capacitance unbalance	Real-ground	$\leq 1600\text{pF} / \text{km}$
Characteristic impedance	At 100 MHz	$100\pm 5\Omega$
Velocity	Nominal	78%
Transfer impedance	At 1 MHz	$\leq 10 \text{m}\Omega / \text{m}$
	At 10 MHz	$\leq 10 \text{m}\Omega / \text{m}$
	At 30 MHz	$\leq 20 \text{m}\Omega / \text{m}$
	At 100 MHz	$\leq 30 \text{m}\Omega / \text{m}$

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### Mechanical Characteristics

Bending radius	Dynamic (installation)	$\geq 190\text{mm}$ (4P cable $\geq 60\text{mm}$ )
	Static (installed)	$\geq 95\text{mm}$ (4P cable $\geq 30\text{mm}$ )
Temperature range	In service	-20°C at +60°C
	At the installation	0°C at +50°C
	Transport and storage	0°C at +50°C

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**Transmission characteristics at 20°C (cable without modules)**

Frequency MHz		4	10	20	62.5	100	250	300	600	900**
Max. attenuat. (dB/100m)	Typical value	3.6	5.5	7.9	14.5	18.5	29.6	32.8	47.6	60
	Imposition (max)*	3.7	5.9	8.3	14.9	19	31	34.2	50.1	-
Min.Next (dB)	Typical value	90	90	90	90	85	77	76	73	70
	Imposition (min)*	78	78	78	78	75	72	66	65	61
Min.ACR (dB)	Typical value	86.4	84.5	82.1	75.5	66.5	47.4	43.2	25.4	10
	Imposition (min)*	74.3	72.1	69.7	60.1	53	35	30.8	10.9	-
PS NEXT (dB)	Typical value	87	87	87	87	82	74	73	70	67
	Imposition (min)*	75	75	75	72	69	63	62	58	-
ELFEXT (dB/70m)	Typical value	86	85	82	76	72	60	57	42	38
	Imposition (min)*	78	74	68	58	54	46	44	38	-
PS ELFEXT (dB/100m)	Typical value	83	82	79	73	69	57	54	39	35
	Imposition (min)*	75	71	65	55	51	43	41	35	-
Return Loss (dB)	Typical value	26	26	26	26	24	22	21	19	18
	Imposition (min)*	23	25	25	21.5	20.1	17.3	17.3	17.3	-

\*Category 7 acc.to IEC 61156-5

\*\*For information only