



Trunk Cable Compact Class E/EA, 6x(4P 26AWG), 650MHz

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

- customized lengths up to 55m
- wiring TIA 568A or B
- stepping + 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

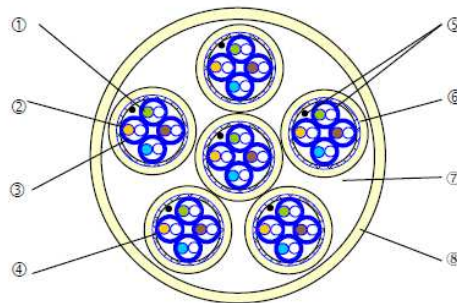
Features

- 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 used as Cat5e/6 (backwards compatible)
- Individual produced according to configured requirements
- Cable characteristics defined up to 650MHz
- Compatible with PoE & PoE+ applications
- Labelling at both cable ends according to individual requirements
- Maximum length cable : 55 m
- Characteristic Impedance of 100 ohm +/-5 ohm @ 100MHz
- Cable Cat.7 S/STP LSOH version

Cable construction

Colour code

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



1	Conductor diameter	Ø 26AWG	5	Shield	Copper braid and continuity wire
2	Insulation	Ø PE< 1,00mm	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	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 nd edition / EN 50173-1 / EN 50173-5
Cabling system installation standards	EN 50174
Directive	RoHS 2002/95/EC

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

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	19.00	284	4P cable 55 Complete cable 330

Electrical Characteristics at 20°C

Complete conductor resistance		≤ 300Ω / km
Resistance unbalance		≤ 2%
Dielectric strength	Continuous current	1kV during 1 minute= no breakdown
Insulation resistance	(500 V)	≥5000MΩ.km
Capacitance unbalance	Real-ground	≤1600pF / km
Characteristic impedance	At 100 MHz	100± 5Ω
Velocity	Nominal	78%
Transfer impedance	At 1 MHz	≤ 10 mΩ / m
	At 10 MHz	≤ 10 mΩ / m
	At 30 MHz	≤ 20 mΩ / m
	At 100 MHz	≤ 30 mΩ / m

Mechanical Characteristics

Bending radius	Dynamic (installation)	≥ 150mm (4P cable≥45mm)
	Static (installed)	≥ 75mm (4P cable≥25mm)
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

Transmission characteristics at 20°C (cable without modules)

Frequency MHz		4	10	20	62.5	100	250	300	600	900
Max. attenuat. (dB/70m)	Typical value	3.4	5.7	8.2	14.5	18.5	29.4	32.5	47.8	58.2
	Imposition for 70m	3.9	6.2	8.7	15.6	20	32.6	35.9	52.6	-
Min.Next (dB)	Typical value	83	83	83	81	77	72	70	66	63
	Cat.7 (min.)	78	78	78	75	72	66	65	61	-
Min.ACR (dB)	Typical value	79.6	77.3	74.8	66.5	58.5	42.6	37.5	18.2	4.8
	Imposition for 70m	74.1	71.8	69.3	59.4	52	33.4	29.1	8.4	-
PS NEXT (dB)	Typical value	80	80	80	78	74	69	67	63	60
	Cat.7 (min.)	75	75	75	72	69	63	62	58	-
ELFEXT (dB/70m)	Typical value	84	80	74	64	60	52	50	44	40
	Cat.7 (min.)	78	74	68	59	55	48	46	41	-
PS ELFEXT (dB/70m)	Typical value	81	77	71	63	57	49	47	41	37
	Cat.7 (min.)	75	71	65	56	52	45	43	38	-
Return Loss (dB)	Typical value	25	27	27	24	22	20	19.5	19.5	19.5
	Cat.7 (min.)	23	25	25	21.5	20.1	17.3	17.3	17.3	-