

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

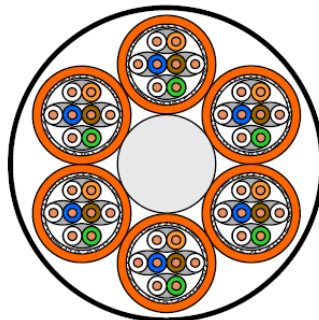
Trunk Cable to be used for datacenter solutions. Production according customer requirements based on the following criterias:

- customized lengths up to 80m
- wiring TIA 568A or B
- 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 of IEC 61935-2
- Each individual trunk cable is tested and marked with quality stamp
- Can also used as Cat5e/6 (backwards compatible)
- Individual produced
- Characteristic of up to 900MHz
- Compatibles with PoE & PoE+ applications
- Strain relief according to EIA-568-C
- Labelling possible on the strain relief or on the color coding
- Impedance of 100 ohm
- Cable Cat.7 S/FTP LSOH version

### Cable construction



Conductor diameter	Ø 23AWG / Ø 0.560mm	Shield	Copper braid and continuity wire
Insulation	Ø PE< 1,35mm	Sheath material	LSHF
Cable assembly	Pairs (number of pairs:4)	Cable	6x4 P sheathed
Individual screen around each pair	Alu/ Polyester tape conductor		

## Directive / standard

Applications	Cabling system installation standards	Directive
IEEE 802.3 IEEE 802.5 FDDI ATM RNIS	EN 50174	RoHS 2002/95/EC

## Fire resistance

No flame propagation	IEC 60332-1
Low smoke opacity	IEC 61034
Low gas corrosivity	IEC 60754-2

## Additional information and references

Type	Reference	Colour	Max diameter mm	Weight Kg/km	Tensile force (N)
Bundle 6x4 P S/FTP Cat.7 LSHF	Tbd	Grey RAL 9001	22.1	340	800

## Electrical Characteristics at 20°C

Complete conductor resistance		$\leq 176\Omega / \text{km}$
Resistance unbalance		$\leq 2\%$
Dielectric strength	Continuous current	1kV during 1 minute= no breakdown
Insulation resistance	(500 V)	$\geq 2000\text{M}\Omega.\text{km}$
Capacitance unbalance	Real-ground	$\leq 1500\text{pF} / \text{km}$
Characteristic impedance	At 100 MHz	$100\pm 5\Omega$
Velocity	Nominal	79%
Coupling attenuation		$\geq 85\text{dB}$

## Mechanical Characteristics

Bending radius	Dynamic (installation)	8x Outer diameter
	Static (installed)	4x Outer diameter
Temperature range	In service	-20°C at +60°C
	At the installation	0°C at +50°C

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

F (MHZ)	Attenuation (dB/90m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB/100m)
1.0	1.8	100	97	98	95	105	105	-
4.0	3.4	100	97	97	94	105	102	27
10.0	5.4	100	97	95	92	97	94	30
16.0	6.8	100	97	93	90	93	90	30
20.0	7.7	100	97	92	89	91	88	30
31.2	9.6	100	97	90	87	87	84	30
62.5	13.7	100	97	86	83	81	78	30
100.0	17.4	100	97	83	80	77	74	30
125.0	19.5	95	92	75	72	75	72	26
155.5	21.9	94	91	72	69	73	70	26
175.0	23.3	93	90	70	67	72	69	25
200.0	25.0	92	89	67	64	71	68	25
250.0	28.1	90	87	62	59	69	66	24
300.0	30.9	89	86	58	55	67	64	24
400.0	38.3	87	84	48	45	64	61	23
500.0	43.0	86	83	43	40	61	58	22
600.0	44.8	85	82	40	37	60	57	22