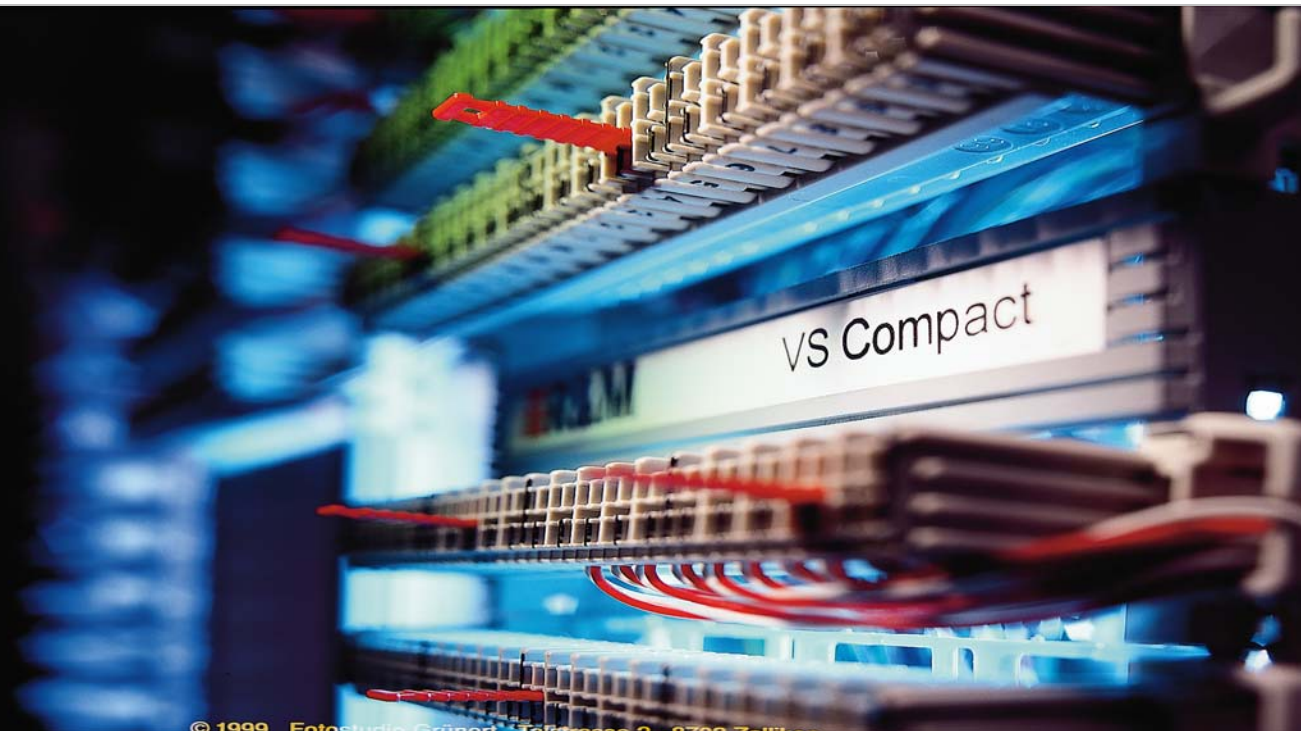


# Data Sheet



## VS Compact SLIM

## 1. VS Compact SLIM

### 1.1 General data

Criterion	Data/Value	Standard
Application class (weatherproof, not temperature-controlled environment)	Class 3.3	ETS 300 019-1-3
Temperature range for storage	-40... + 85° C	-
Operational temperature range	-25... + 70° C	ITU-T L.51
IDC contact	Corresponding to	IEC 60 352-4
Insulation design for wiring	PVC / PE	-
No. of connectable wires per contact	1	-
Multiple wiring up to (with identical or increasing wire-Ø)	≥ 100	IEC 60 352-4
Wiring force at 0.40 – 0.65 wires	≤ 100 N	-
Air gap conductor – conductor	> 2.5 mm	DIN VDE 0110 Part 1
Leakage path conductor – conductor	> 3.0 mm	DIN VDE 0110 Part 1

#### About this technical data sheet

The greatest possible care has been taken in preparing this document, which represents the current technological situation at the time of its printing. Any revisions and/or corrections to this document will be incorporated edition without announcement into the next new. Subject to technical changes.

## 1.2 Materials

Designation	Material	Identification
Modules base	Polycarbonate (10% fibre glass reinforced)	PC-GF 10
Connection contact (IDC)	spring bronze	CuSn <sub>6</sub>
Surface treatment - IDC	Ni Sn	1 – 2 µm 2 – 4 µm

## 1.3 Connection module

Criterion	Data/Value	Standard
Base colour similar to RAL	lightgrey 7035	-
Wire diameter range on jumper side	0.40 – 0.65 mm (26-22 AWG)	-
Insulation diameter range on jumper side	0.80 – 1.60 mm	PE / PVC
Wire diameter range cable side	0.40 – 0.65 mm (26-22 AWG)	-
Insulation diameter range cable side	0.80 – 1.60 mm	PE / PVC
Stranded wire (7x0.16 – 7x0.20)	AWG 26/7 – 22/7	PE / PVC

## 1.4 Combustibility

Criterion	Indications/Value	Standard
Combustibility	Class V-0	UL 94
Flame protection agent	halogen-free	IEC 60 472 Part 815

## 1.5 Mechanical data

Criterion	Indications/Value	Standard
Vibrations/oscillation	5 g / 10 – 500 Hz	IEC 60 068-2-6
Axial lead pulling force		
∅ 0.40 mm	≥ 20 N	DIN 47608-2
∅ 0.65 mm	≥ 50 N	
Radial lead pulling force		
∅ 0.40 mm	≥ 3 N	DIN 47608-2
∅ 0.65 mm	≥ 8 N	

## 1.6 Climate load

Criterion	Indications/Value	Standard
Laboratory storage (15 weeks / 23° C / 55 % relative humidity)	$\Delta R_L < 10 \text{ m}\Omega$ $R_{INST} < 5 \text{ m}\Omega$	PTT 839.76
Dry heat (15 weeks / 85° C)	$\Delta R_L < 10 \text{ m}\Omega$ $R_{INST} < 5 \text{ m}\Omega$	IEC 60 068-2-2 Ba
Humid heat (15 weeks / 40° C / 93 % relative humidity)	$\Delta R_L < 10 \text{ m}\Omega$ $R_{INST} < 5 \text{ m}\Omega$	IEC 60 068-2-3
Climate sequence (15 weeks / 22 – 55° C / 90 – 95 % relative humidity)	$\Delta R_L < 10 \text{ m}\Omega$ $R_{INST} < 5 \text{ m}\Omega$	IEC 60 068-2-30 Db
Corrosive gas test SO <sub>2</sub> 10 ppm (10 days / 25° C / 75 % relative humidity)	$\Delta R_L < 10 \text{ m}\Omega$ $R_{INST} < 5 \text{ m}\Omega$	IEC 60 068-2-60
Corrosive gas test H <sub>2</sub> S 1 ppm (10 days / 25° C / 75 % relative humidity)	$\Delta R_L < 10 \text{ m}\Omega$ $R_{INST} < 5 \text{ m}\Omega$	IEC 60 068-2-60

## 1.7 Electrical data

Criterion	Indications/Value	Standard
IDC contact resistance (solid wire)	$R_C \leq 5 \text{ m}\Omega$ Type < 1.0 mΩ	IEC 60 352-4
Transmission resistance connection module R <sub>CM</sub>	$\leq 10 \text{ m}\Omega$ Type < 6.5 mΩ	IEC 60 512-2-1
Insulation resistance R <sub>IS</sub> (100 V normal climate)	$> 5 \times 10^5 \text{ M}\Omega$	IEC 60 512-3-1
Alternating voltage dielectric strength U <sub>eff</sub> (50 Hz / 60 s)		
Lead – lead	> 2000 V	IEC 60 512-4-1
Lead – earth	> 2000 V	DIN 47 608-2
Rated current I <sub>N</sub>	2 A	IEC 60512-5-1
Rated voltage U <sub>N</sub> (a-b / a-G / b-G with DC and AC peak)	125V	-
Coupling capacitance C <sub>K</sub>	< 0.8 pF	PTT VL 26.124 U
Coupling inductance I <sub>K</sub>	< 1.0 nH	PTT VL 26.124 U
Attenuation (ATT)		
1 MHz	< 0.05 dB	IEC 11801
16 MHz	< 0.05 dB	
100 MHz	< 0.10 dB	
Near end cross talk (NEXT)		
1 MHz	> 82 dB	IEC 11801
16 MHz	> 59 dB	
100 MHz	> 43 dB	
Return loss (RL)		
1 MHz	> 35 dB	IEC 11801
16 MHz	> 35 dB	
100 MHz	> 25 dB	
Category	Cat. 5e	

1.8 Dimensions

