



HT-D 1/48 Xseries

- Designed for the protection of data and communication lines against longitudinal and transverse surge effects.
- Contains both 1st and 2nd stage of protection.
- Suitable for use in industrial applications, especially in low-voltage ESS, FDAS systems and also in measurement and control systems.

Type	HT-D 1/48 Xseries	
Testing category according to IEC 61643-21:2000 and EN 61643-21:2001	C1, C2, C3, D1	
Number of pairs	1	
Connector type	Two-pole screw plug-in terminal block	
Rated operating DC voltage	U_N	0 ÷ 48 V
Maximum continuous operating voltage DC	U_C	57.6 V
Rated load current	I_L	0.1 A
Maximum discharge current (8/20)	I_{max}	10 kA
C2 Nominal discharge current (8/20)	I_n	1 kA
C2 Voltage protection level at I_n	U_p	< 160 V
C3 Voltage protection level at 1 kV/μs	U_p	< 66 V
D1 Impulse discharge current (10/350) line/PE	I_{imp}	2.5 kA
D1 Total impulse discharge current (10/350)	I_{Total}	5 kA
Response time	t_A	< 30 ns
Data rate	1 Mbit/s	
Bandwidth	B	0 ÷ 1 MHz
Series impedance per line	2.2 Ω	
Parasitic capacitance	C	< 1.5 nF
Lightning protection zone	LPZ 0-1, LPZ 1-2, LPZ 2-3	
Housing material	AlMgSi (EN AW 6060)	
Degree of protection	IP20	
Operating temperature	θ	-40 ÷ 70 °C
Clamp fastening range (solid conductor)	0.2 ÷ 2.5 mm ²	
Tightening moment	0,5 Nm	
Installation	On DIN rail 35 mm	
Operating position	Any	
Remote signalling	No	
Modular design	No	
Designed according to standards		
Requirements and test methods for SPDs connected to telecommunications and signalling networks	IEC 61643-21:2000	
Application standards		
Protection against lightning	IEC 62305:2010	

Ordering, packaging and additional data

Mass	m	95 g
Mass (including the packaging)	m	109 g
Packaging dimensions (H x W x D)		45 x 102 x 74 mm
Packaging value	V	0.34 dm ³
Customs tariff no.		85363010
EAN code		8590681111864
Art. number		57 008



The link in the QR code leads to the online presentation of the HT-D 1/48 Xseries. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit www.hakel.com



Internal diagram

