



DTE 1/48

- 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		DTE 1/48
Testing category according to IEC 61643-21:2000 and EN 61643-21:2001		C1, C2, C3, D1
Number of pairs		1
Connector type		Screw terminals
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		Polyamid PA6, UL94 V-0
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
Modular width		1 TE
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
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Ordering, packaging and additional data

Mass	m	45 g
Mass (including the packaging)	m	56 g
Packaging dimensions (H x W x D)		26 x 98 x 73 mm
Packaging value	V	0.19 dm ³
Customs tariff no.		85363010
EAN code		8590681413043
Art. number		41 304



The link in the QR code leads to the online presentation of the **DTE 1/48**. 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

