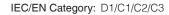
DATA SHEET SPD for Shielded Cable **RayDat SSH-3 Series** D1 • C1 • C2 • C3

***UL Listed**



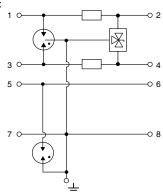


Surge Discharge Ratings: I_n: 10kA, I_{max}: 20kA, I_{imp}: 2.5kA Voltages: 5*, 12*, 15, 24, 30*, 48, 60 V DC Frequency Range: 30 MHz

Housing: Modular Design Compliance: IEC/EN 61643-21

UL 497B 4th Edition

Configuration:















iecinicai bata									
SSH-3 Series		5*	12*	15	24	30*	48	60	
Electrical									
Lines Protected				1	(2 Conductor	s)			
Nominal Operating Voltage (DC)	U_n	5V	12V	15V	24V	30 V	48V	60 V	
Maximum Continuous Operating Voltage (DC)	U _c	6V	15V	18V	28V	33 V	52V	64 V	
Rated Load Current at 25°C	I_{L}				1 A				
C2 Nominal Discharge Current (8/20 µs)	I _n				10kA				
Maximum Discharge Current (8/20 µs)	I _{max}				20 kA				
D1 Impulse Current (10/350 µs)	I _{imp}				2.5 kA				
Residual Voltage at 5 kA (8/20 µs) (Line-Line)	U _{res}	<22V	<42V	<48V	<70V	<80V	<140V	<160 V	
Rated Spark Overvoltage (Shield-Ground)					184-276V				
(Line-Line), (Line-Ground)		7-10V	16-21 V	20-24V	30-36V	35-43V	55-68V	67-85 V	
Response Time Overvoltage Protection (Shield-Ground)	t _A				<100 ns				
(Line-Line), (Line-Ground)					< 1 ns				
Insulation Resistance of the Protection (Shield-Ground)	R _{iso}				> 1 GΩ/100 V	,			
(Line-Line), (Line-Ground)		≥ 6 KΩ	≥ 15MΩ	≥ 18MΩ	≥ 28 MΩ	≥ 33 MΩ	≥ 52 MΩ	≥ 64 MΩ	
Serial Resistance per Path	R				1.6-2.0Ω				
Transverse Capacitance (Shield-Ground)	С				5pF				
(Line-Line), (Line-Ground)					50 pF				
Cut-off Frequency	f_G				30 MHz				
Mechanical									
Temperature Range				-40 °F to +	176 °F [-40 °C	to +80 °C]			
Terminal Cross Section Multi-strand (max.)				12 AWG [4	mm², 2.5 mm²	² Q Version]			
Terminal Screw Torque				4.	5 lbf·in [0.5 N	m]			
Degree of Protection IEC/EN 60529					IP 20 (built-in))			
Housing Material		Thermoplastic; Grey; Extinguishing Degree V-0							
Mounting IEC/EN 60715		35 mm DIN Rail							
Order Information									
Order Code		5*	12*	15	24	30*	48	60	
SSH-3-xxx		7086.01	7086.02	7086.03	7086.04	7086.05	7086.06	7086.07	
SSH-3-xxxQ (Quick Connect Terminals)		7086.90	7086.91	7086.92	7086.93	7086.94	7086.95	7086.96	
SSH-3-xxxM (module)		7086.09	7086.10	7086.11	7086.12	7086.13	7086.14	7086.15	



RayDat SSH-3 Series

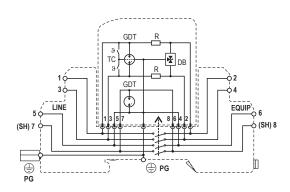
Internal Configuration

Legend DB GDT

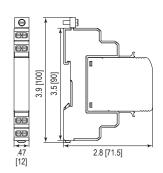
DB Diode Block
GDT Gas Discharge Tube
PG Protective Grounding

R Resistor

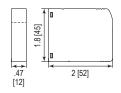
SH Shielded TC Thermo-clip



Dimensions & Packaging

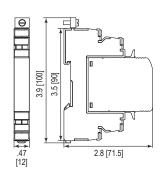


5	12	15	24	30	48	60		
2.11 oz [60 g]								
2/3 TE								
3.4 × .59 × 4" [87 × 15 × 102 mm]								
15 pieces								
	5	·	2. 3.4 × .59 × 4	2.11 oz [60 2/3 TE 3.4 × .59 × 4" [87 × 1	2.11 oz [60 g] 2/3 TE 3.4 × .59 × 4" [87 × 15 × 102	2.11 oz [60 g] 2/3 TE 3.4 × .59 × 4" [87 × 15 × 102 mm]		



SSH-3-xxxM Series	5	12	15	24	30	48	60	
Dimensions								
Weight per Unit	.91 oz [26 g]							
Packaging Dimensions (Single Unit)	3.4 × .59 × 4" [87 × 15 × 102 mm]							
Minimum Package Quantity	15 pieces							

Quick Connect Terminals



SSH-3-xxxQ Series	5	12	15	24	30	48	60		
Dimensions									
Weight per Unit	2.18 oz [62 g]								
Dimensions DIN 43880	2/3 TE								
Packaging Dimensions (Single Unit)	$3.4 \times .59 \times 4$ " [87 × 15 × 102 mm]								
Minimum Package Quantity	15 pieces								

inches [mm]

Information contained in this document is subject to change at any time without notice.



