

PFISTERER CONNEX Sizing Charts and Technical Specifications

CONNEX Separable Connectors Size 0 - 3 Test Specification to DIN VDE 0278 Part 6		Size				
		0	1	2	3/3XL	3/S
Max. Operating Voltage	U_M (kV)	24	36	42	42	52
Nominal Current	I_N (A)	250	630	800	1250	1250
Cross Section Range (Nominal)	mm ²	25-70	25-240	25-400	35-800	35-800
Minimum Conductor Diameter*	∅ (mm)	5.6	4.9	4.9	6.1	17.5
Maximum Conductor Diameter*	∅ (mm)	11.9	20.1	24.1	34.9	34.9
Minimum Diameter over Insulation	∅ (mm)	12.7	13.5	13.5	15.5	15.5
Max Diameter over Insulation (w/o voltage tap)	∅ (mm)	23.5	36.0	40.0	50/55	45/55
Rated Power Frequency withstand Voltage	50Hz/1min (kV)	50	70	95	95	117
Rated Lightning Impulse withstand Voltage (BIL)	1.2/50µs (kV)	125	170	200	200	250
Partial Discharge	2 x U_o pC	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10
D.C. Voltage Test	15min 6 x U_o (kV)	72	108	125	125	156
Rated Short-time withstand Current	1 sec (kA)	16	31.5	40	60	60
Rated Impulse Current	kA	40	125	125	150	150
Weight (set 3)	approx. kg	2.7	4	4.3	9.9	9.4

CONNEX Separable Connectors Size 0 - 6 Technical Data and Size Classification List		Size			
		4	5-S	6	6-S
Max. Operating Voltage	U_M (kV)	72.5	145	170	245
Nominal Current	I_N (A)	2500	2500	2500	2500
Cross Section Range (Nominal)	mm ²	95- 1600	95- 1600	240- 2500	240- 2500
Minimum Conductor Diameter*	∅ (mm)	9.3	9.3	16.8	16.8
Maximum Conductor Diameter*	∅ (mm)	50.4	50.4	64.9	64.9
Minimum Diameter over Insulation	∅ (mm)	33.0	36.0	53.0	53.0
Maximum Diameter over Insulation	∅ (mm)	75	76	110.5	110.5
Rated Power Frequency withstand Voltage	Hz/1min (kV)	140	275	325	460
Partial Discharge	2 x U_o pC	≤ 2	≤ 2	≤ 2	≤ 2
Rated Lightning Impulse withstand Voltage (BIL)	kV	325	650	750	1050
DC Voltage Test	15min 6 x U_o (kV)	144	304	348	508
Rated Short-Term Current	1s kA	67	67	75	75
Rated Impulse Current	kA	160	160	160	160
Weight (each)	kg	18.5	22	27	27

*stranded, compacted

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