



## MV-CONNEX Separable Connectors, Size 0 - 3-S Technical Data and Size Classification List

■ type tested in accordance to IEC 60 502-4:2005 / DIN VDE 0278-629-1:2006

- <sup>1)</sup> If not required, the voltage tap must be earthed separately.
- <sup>2)</sup> The min. and max. cross sections can only be achieved by maintaining the min. or max. diameter across the conductors and the min. or max. diameter across the insulation.
- <sup>3)</sup> The entire diameter range is covered by various components.

Size	0			1			2			3			3-S					
Max. operating voltage	$U_m$	(kV)		24	36		42			42			52					
Rated voltage	$U$	(kV)		20	30		36			36			45					
Line-to-earth-voltage	$U_0$	(kV)		12	18		20,8			20,8			26					
Nominal current	$I_n$	(A)		250	630		800			1250			1250					
Conductor		RM	RE	RF	RM	RE	RF	RM	RE	RF	RM	RE	RF	RM	RE	RF		
Cross section (Guide value <sup>2)</sup> )	Min.	(mm <sup>2</sup> )		25	35	16	25	70	16	25	70	16	35	95	25	35	95	25
	Max.	(mm <sup>2</sup> )		70	70	50	240	240	185	400	325	240	800	1000	400	800	1000	400
Diameter (Set value) <sup>3)</sup>	Min.	(mm)		5,6	5,6	5,6	4,9	8,3	6,5	4,9	8,3	6,5	6,1	10,5	6,5	17,5	10,5	6,5
	Max.	(mm)		11,9	11,9	11,9	20,1	20,1	18,3	24,1	22,0	20,6	36,0	36,0	26,8	36,0	36,0	26,8
Voltage tap		without			with <sup>1)</sup>	with- out		with <sup>1)/</sup> without	without (XL)		with <sup>1)/</sup> without	without (XL)		with <sup>1)/</sup> without	without (XL)			
Diameter of insulation <sup>3)</sup> after removing the outer semi-conducting layer	Min.	(mm)		12,7	13,5		13,5		13,5	36,0		15,5	46,0		15,5	46,0		
	Max.	(mm)		23,5	31,5		36,0		36,0	44,0		46,0	55,0		46,0	55,0		
Rated AC voltage	5 min.	(kV)		54	81		95			95			117					
Partial discharge level at 2 x $U_0$		(pC)		≤ 10	≤ 10		≤ 10			≤ 10			≤ 10					
Rated lightning impulse withstand voltage (BIL)		(kV)		125	170		200			200			250					
DC voltage test	15 min.	(kV)		72	108		125			125			156					
Rated short time current	1 s	(kA)		16	31,5		40			60			60					
	3 s	(kA)		-	16		25			40			40					
Rated impulse current		(kA)		40	125		125			150			150					