

## 07 GENERAL REELS

Due to a structured modular principle, our reels with diameters from 315–800 mm allow the greatest possible variety of dimension variants and application possibilities as dispatch or process reels

### LM/EM/FR

Reels in the LM series are intended as a cost-effective solution for the dispatch of bare and insulated wire. They are made of impact-resistant PS in the colour anthracite. EM series reels offer additional reinforcement through an inner core made of ABS.

A selection of the low-priced versions in the diameter range 315–630 mm can be found in the separate brochure. Reels in the FR series can be assembled with plastic or cardboard barrels. Unmounted flanges are also available. The material used is PS or ABS.

### VM

These reels have the same basic dimensions as those in the LM series, although the slightly thicker flanges make the entire outer width larger than comparable LM reels. PS-TSG, ABS or PA6 are the materials used. The standard dimensions are particularly cost-effective.

### VMV/VMZ

Reels for the manufacture of stranded wire and telephone wire. Large flange thicknesses and the resulting high rigidity are the distinguishing features of VMV and VMZ series reels. The reels are reinforced with an inner core and can be

### Special requests

This brochure can only provide a guide to our products and standard dimensions, as numerous combinations and details are possible. If possible, please enclose a drawing with your enquiry, showing the position and design of drives and wire entry and exit. A wide range of different hub designs are also possible; therefore please contact us if you have any special requests.

The table shows all possible combinations; where several dimensions are given, the DIN dimensions are indicated separately. The bore  $d_3$  and the winding width  $L_2$  can also be made smaller on request. Special features, such as additional or different drives and wire holes are possible. Reel designation, e.g. VM 500/127–290 PS TSG,  $d_2 = 250$ ,  $L_2 = 250$ . For further details, such as wire holes, hub extensions or drives, please include a drawing.

bolted for additional strength. ABS is the material used.

### **GM/GMV**

GM and GMV reels are the number one choice in the production of telephone cables. GM reels have the same basic dimensions as those in the VM series, however, the flanges have no ribs on the outside surfaces.

The outer surfaces of the flanges are roughened in a star formation and can be used as contact surfaces for braking purposes. The material used is ABS in the colour grey. Other colours are also available.



## **DIFFERENCES**

The reels vary in design mainly due to the different shapes of flange and the material used. The various flange shapes are explained overleaf. The reels in the LM and EM series differ in the material used, but otherwise have the same flange design. LM reels do not feature an inner tube.

Designation	Flange Ø		Barrel Ø		Central bore Ø		Width	Winding width		Flange thickness	Winding-volume	Central bore Ø tapered part		Drive-hole/pin	Drive-distance
	d1 [mm]	d2 [mm]	d3 [mm]	L1 [mm]	L2 [mm]	S [mm]		V [cm³]	d4 [mm]			d5 [mm]	E1 [mm]		
Reel EM 315/60-240	315	100	60	240	50 - 217	11.5	3504 - 15207								
Reel EM 315/127-273	315	160	16 - 127	273	50 - 250	11.5	2891 - 14456								
Reel GM 315/127-284	315	160	16 - 127	284	50 - 250	17	2891 - 14456	143.5							
Reel LM 315/60-240	315	100	60	240	50 - 217	11.5	3504 - 15207								
Reel LM 315/127-273	315	160	16 - 127	273	50 - 250	11.5	2891 - 14456	143.5							
Reel EM 350/127-303	350	180	16 - 127	303	50 - 280	11.5	3538 - 19814	143.5							
Reel EM 350/127-333	350	224	16 - 127	333	50 - 310	11.5	2840 - 17609	143.5							
Reel LM 350/127-303	350	180	16 - 127	303	50 - 280	11.5	3538 - 19814	143.5							
Reel LM 350/127-333	350	224	16 - 127	333	50 - 310	11.5	2840 - 17609	143.5							
Flange FR 355 K	355	214	16 - 127		50 - 310	20	3144 - 19492	143.5							
Flange FR 355 P	355	217	16 - 127		50 - 310	20		143.5							
Reel FR 355/127-350	355	224	16 - 127	350	50 - 310	20	2979 - 18467	143.5							
Reel GM 355/127-314	355	180	16 - 127	314	50 - 280	17	3677 - 20589	143.5							
Reel GM 355/127-344	355	224	16 - 127	344	50 - 310	17	2979 - 18467	143.5							
Reel VM 355/127-314	355	180	16 - 127	314	50 - 280	17	3677 - 20589	143.5							
Reel VM 355/127-344	355	224	16 - 127	344	50 - 310	17	2979 - 18467	143.5							
Reel VMV 355/127-224	355	224	16 - 127	224	50 - 160	32	2979 - 9531	143.5							
Reel EM 400/127-272	400	152	16 - 127	272	50 - 247	12.5	5376 - 26557	143.5							
Reel EM 400/127-275	400	160	16 - 127	275	50 - 250	12.5	5278 - 26389	143.5							
Reel EM 400/127-305	400	180	16 - 127	305	50 - 280	12.5	5011 - 28061	143.5							
Reel EM 400/127-310	400	200	16 - 127	310	50 - 285	12.5	4712 - 26861	143.5							
Reel EM 400/127-401	400	144	16 - 127	425	50 - 400	12.5	5469 - 43751	143.5							
Reel GM 400/127-286	400	160	16 - 127	286	50 - 250	18	5278 - 26389	143.5							
Reel GM 400/127-316	400	180	16 - 127	316	50 - 280	18	5011 - 28061	143.5							
Reel GM 400/127-321	400	200	16 - 127	321	50 - 285	18	4712 - 26861	143.5							
Reel LM 400/127-272	400	152	16 - 127	272	50 - 247	12.5	5376 - 26557	143.5							
Reel LM 400/127-275	400	160	16 - 127	275	50 - 250	12.5	5278 - 26389	143.5							
Reel LM 400/127-305	400	180	16 - 127	305	50 - 280	12.5	5011 - 28061	143.5							
Reel LM 400/127-310	400	200	16 - 127	310	50 - 285	12.5	4712 - 26861	143.5							
Reel LM 400/127-401	400	144	16 - 127	425	50 - 400	12.5	5469 - 43751	143.5							
Reel VM 400/127-286	400	160	16 - 127	286	50 - 250	18	5278 - 26389	143.5							
Reel VM 400/127-316	400	180	16 - 127	316	50 - 280	18	5011 - 28061	143.5							
Reel VM 400/127-321	400	200	16 - 127	321	50 - 285	18	4712 - 26861	143.5							

Designation	Flange Ø	Barrel Ø	Central bore Ø	Width	Winding width	Flange thickness	Winding- volume	Central bore Ø tapered part	Drive- hole/pin	Drive- distance
	d1 [mm]	d2 [mm]	d3 [mm]	L1 [mm]	L2 [mm]	S [mm]	V [cm³]	d4 [mm]	d5 [mm]	E1 [mm]
Reel VM 400/127-355	400	250	16 - 127	355	50 - 315	20	3829 - 24122	143.5		
Reel VM 400/127-415	400	280	16 - 127	415	50 - 375	20	3204 - 24033	143.5		
Reel VM 400/127-416	400	315	16 - 127	416	50 - 425	18	2387 - 20286	143.5		
Reel VMV 400/127-395	400	250	16 - 127	395	50 - 315	40	3829 - 24122	143.5		
Reel EM 450/127-305	450	180	16 - 127	305	50 - 280	12.5	6680 - 37407	143.5		
Reel EM 450/127-310	450	200	16 - 127	310	50 - 285	12.5	6381 - 36374	143.5		
Reel EM 450/127-335	450	224	16 - 127	335	50 - 310	12.5	5982 - 37087	143.5		
Reel GM 450/127-316	450	180	16 - 127	316	50 - 280	18	6680 - 37407	143.5		
Reel GM 450/127-321	450	200	16 - 127	321	50 - 285	18	6381 - 36374	143.5		
Reel GM 450/127-346	450	224	16 - 127	346	50 - 310	18	5982 - 37087	143.5		
Reel LM 450/127-305	450	180	16 - 127	305	50 - 280	12.5	6680 - 37407	143.5		
Reel LM 450/127-310	450	200	16 - 127	310	50 - 285	12.5	6381 - 36374	143.5		
Reel LM 450/127-335	450	224	16 - 127	335	50 - 310	12.5	5982 - 37087	143.5		
Reel VM 450/127-316	450	180	16 - 127	316	50 - 280	18	6680 - 37407	143.5		
Reel VM 450/127-321	450	200	16 - 127	321	50 - 285	18	6381 - 36374	143.5		
Reel VM 450/127-346	450	224	16 - 127	346	50 - 310	18	5982 - 37087	143.5		
Reel GM 500/127-325	500	200	16 - 127	325	50 - 285	20	8247 - 47006	143.5		
Reel GM 500/127-355	500	250	16 - 127	355	50 - 315	20	7363 - 46388	143.5		
Reel GM 500/127-370	500	280	16 - 127	370	50 - 375	20	6739 - 50540	143.5		
Reel GMV 500/51-315	500	250	51	315	50 - 315	27.5	7363 - 46388			
Reel GMV 500/56-375	500	250	16 - 56	375	50 - 315	27.5	7363 - 46388			
Reel GMV 500/127-370	500	250	16 - 127	370	50 - 315	27.5	7363 - 46388	143.5		
Reel VM 500/127-325	500	200	16 - 127	325	50 - 285	20	8247 - 47006	143.5		
Reel VM 500/127-355	500	250	16 - 127	355	50 - 315	20	7363 - 46388	143.5		
Reel VM 500/127-420	500	315	16 - 127	420	50 - 425	20	5921 - 50328	143.5		
Reel VMV 500/127-470	500	315	16 - 127	470	50 - 425	45	5921 - 50328	143.5		
Reel LM 540/33,5-275	540	315	33.5	275	50 - 425	20	7554 - 64213		2x35+2x25	115
Reel GM 560/127-425	560	280	16 - 127	425	50 - 375	25	9236 - 69272	143.5		
Reel VM 560/127-380	560	355	16 - 127	380	50 - 425	25	7366 - 62611	143.5		
Reel VM 560/127-425	560	280	16 - 127	425	50 - 375	25	9236 - 69272	143.5		
Reel VMV 560/127-480	560	315	16 - 127	480	50 - 425	50	8418 - 71557	143.5		
Reel VMZ 560/127-406	560	355	16 - 127	406	50 - 425	38	7366 - 62611	143.5		
Reel VM 600/127-365	600	250	16 - 127	365	50 - 315	25	11682 - 73601	143.5	1x22	95
Reel VM 600/127-430	600	315	16 - 127	430	50 - 425	25	10240 - 87045	143.5	1x22	95
Reel GMV 610/127-355	610	250	127	355	305	25.4	74163			

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	d1 [mm]	d2 [mm]	d3 [mm]	L1 [mm]	L2 [mm]	S [mm]	V [cm³]	d4 [mm]	d5 [mm]	E1 [mm]
Reel GMV 610/127-355	610	355	127	355	305	25.4	58946			
Reel VM 610/127-430	610	315	16 - 127	430	50 - 425	25	10716 - 91084	143.5		
Reel VM 610/127-610	610	400	16 - 127	610	50 - 560	25	8329 - 93286	143.5		
Reel EM 630/127-420	630	315	16 - 127	420	50 - 425	20	11690 - 99362	143.5		
Reel GM 630/127-430	630	315	16 - 127	430	50 - 425	25	11690 - 99362	143.5		
Reel LM 630/127-420	630	315	16 - 127	420	50 - 425	20	11690 - 99362	143.5		
Reel VM 630/127-430	630	315	16 - 127	430	50 - 425	25	11690 - 99362	143.5	1x22	95
Reel VM 630/127-610	630	400	16 - 127	610	50 - 560	25	9303 - 104194	143.5		
Reel VM 630/127-610	630	500	16 - 127	610	50 - 560	25	5769 - 64610	143.5		
Reel VMV 630/127-660	630	400	16 - 127	660	50 - 560	50	9303 - 104194	143.5		
Reel VM 710/127-385	710	250	16 - 127	385	50 - 315	35	17342 - 109252	143.5		
Reel VM 710/127-630	710	400	16 - 127	630	50 - 560	35	13513 - 151343	143.5		
Reel VM 710/127-630	710	500	16 - 127	630	50 - 560	35	9978 - 111759	143.5		
Reel VMV 710/127-660	710	500	16 - 127	660	60 - 560	50	11974 - 111759	143.5	2x36	100
Reel VMV 750/127-660	750	400	16 - 127	660	60 - 560	50	18967 - 177028	143.5	2x36	100
Reel VM 800/127-630	800	400	16 - 127	630	50 - 560	35	18850 - 211115	143.5		
Reel VMV 800/127-680	800	500	16 - 127	680	60 - 560	60	18378 - 171531	143.5		

## TECHNICAL DRAWING

### Spools



