



"M_{ep}[®]" SERIES ACTIVE ANCHORAGES



The anchorage is made of: an anchor plate, wedges, connection and anchor casting. The anchor casting is protected with an epoxy-polyester coating to guarantee the anchorage with a proper protection against corrosion. The "M_{ep}[®]" anchorage is also provided with a closing cap to protect the anchor plate. The protection with coating can be provided with several protection levels: "M_{EP}[®]I", "M_E[®]II" and "M_{ep}[®]III"

The M_{EP}[®]I anchorage in I protection is provided with a coating that has a salt spray test resistance of 250 hours

The M_{ep}[®]II anchorage in II protection is provided with a coating that has a salt spray test resistance of 350 hours

The M_{ep}[®]III anchorage in III protection is provided with a coating that has a salt spray test resistance of 700 hours.



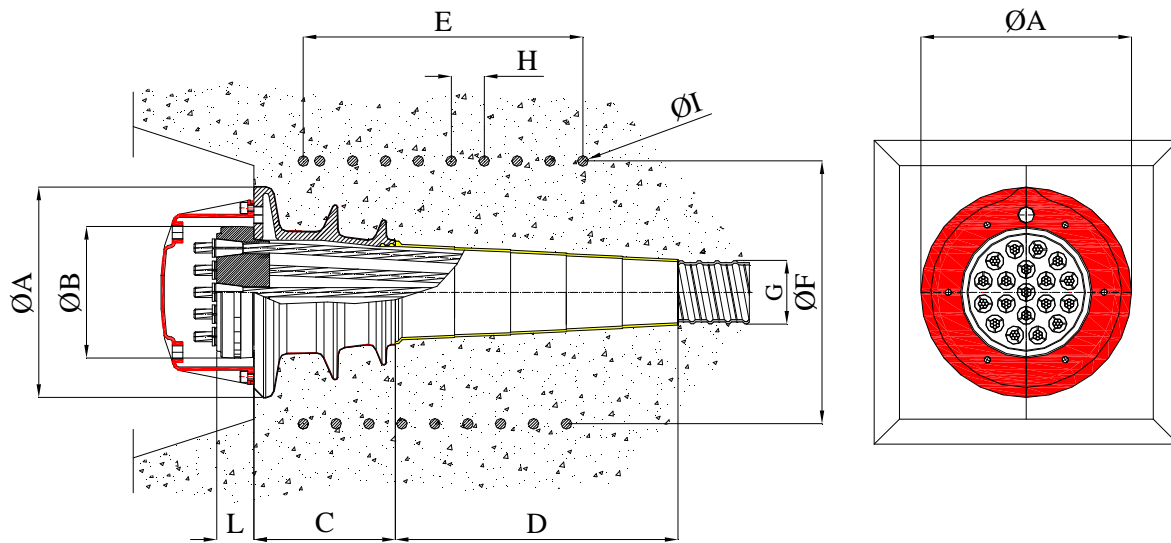
The "M" series active anchorage is made of the following parts: casting, anchor plate, wedges and connection in H.D.P.E. to connect the casting to the metallic or polyethylene sheath. Castings have a turned plane for the plate, holes for connection to cap and formwork and a threaded grouting hole. Castings are in spheroidal cast iron EN-GJS 500-7 EN-JS-1050, which offers a high resistance to stress. Being weldable, it guarantees the maximum safety during installation.

Strands are blocked on a distribution plate with truncated cone holes in steel C40-45 UNI EN 10083/1 and by means of wedges in steel 16NiCr4Pb UNI EN 10277-4.

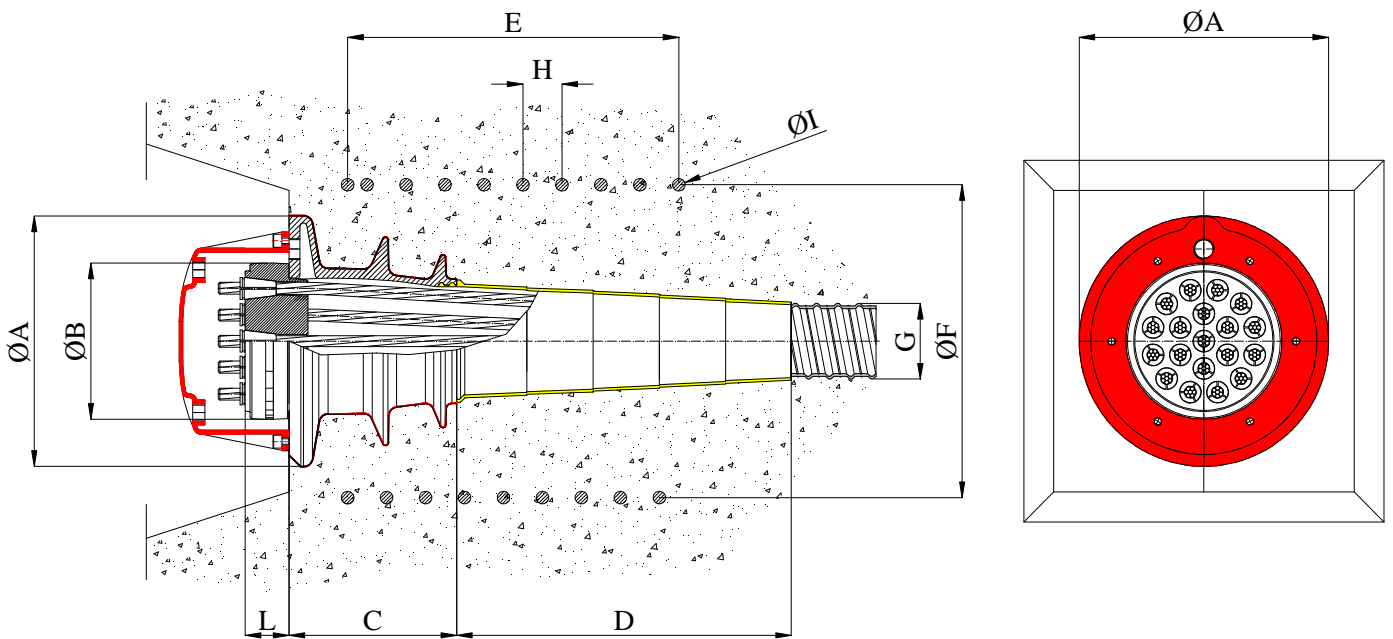
The anchorage and the sheaths are connected by means of a truncated cone connection that guarantees a correct deviation of strands, minimizing the values of losses. The connection is made of H.D.P.E. and suitable for the connection to several-diameter sheaths.

All castings have threaded holes on the plane to allow an easy fixing to the formwork by means of bolts.

All castings have a gas threaded hole for grouting to allow the connection to the several solutions available for grouting. Castings may be supplied with an epoxy coating protection on request.

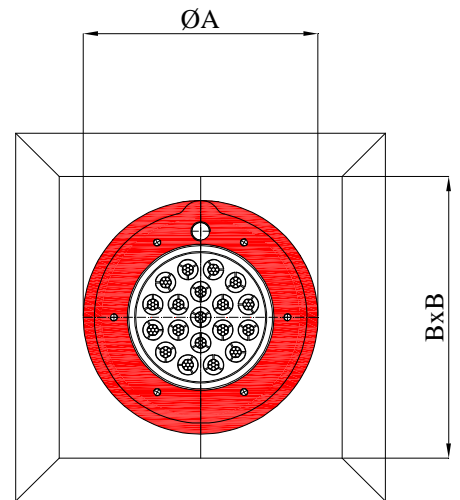
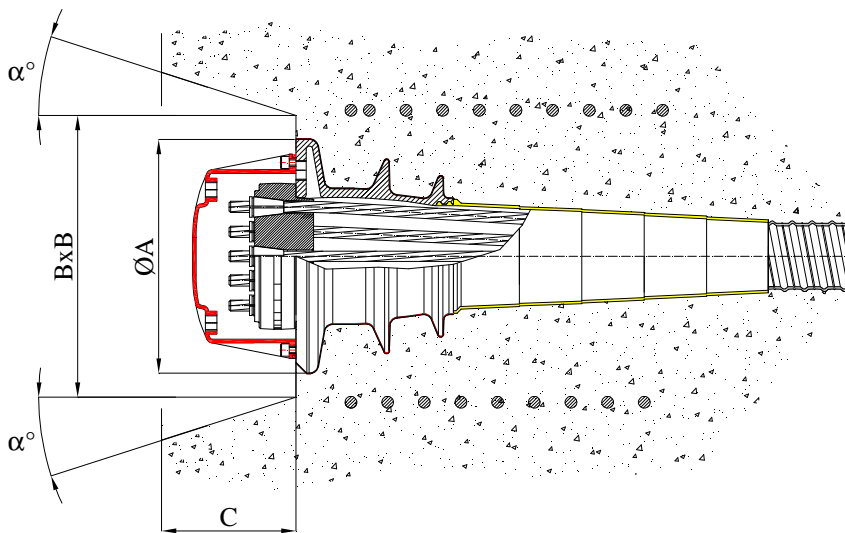


Type	Ultimate load for cable			A	B	C	D	E	F	G	H	I	L
	T15	T15S	T15C										
	259 kN	279 kN	307 kN	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
4Mep15	1036	1116	1228	160	105	103	300	180	170	45/50	45	12	145
7Mep15	1813	1953	2149	200	125	133	340	250	220	62/67	45	12	145
9Mep15	2331	2511	2763	235	146	163	380	250	250	72/77	45	14	145
12Mep15	3108	3348	3684	265	160	180	385	300	300	80/85	50	16	145
15Mep15	3885	4185	4605	290	176	197	405	350	355	85/90	50	16	145
19Mep15	4921	5301	5833	320	200	215	430	425	400	95/100	50	16	120
22Mep15	5698	6138	6754	355	230	260	430	425	420	100/105	50	18	145
27Mep15	6993	7533	8289	380	250	277	470	400	460	110/115	50	18	145



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4Mep15	1036	1116	1228	160	105	103	300	205	180	45/50	45	12	145
7Mep15	1813	1953	2149	200	125	133	340	270	240	62/67	45	12	145
9Mep15	2331	2511	2763	235	146	163	380	270	300	72/77	45	14	145
12Mep15	3108	3348	3684	265	160	180	385	350	350	80/85	50	16	145
15Mep15	3885	4185	4605	290	176	197	405	450	410	85/90	50	16	145
19Mep15	4921	5301	5833	320	200	215	430	450	440	95/100	50	16	120
22Mep15	5698	6138	6754	355	230	260	430	425	480	100/105	50	18	145
27Mep15	6993	7533	8289	380	250	277	470	480	530	110/115	50	18	145

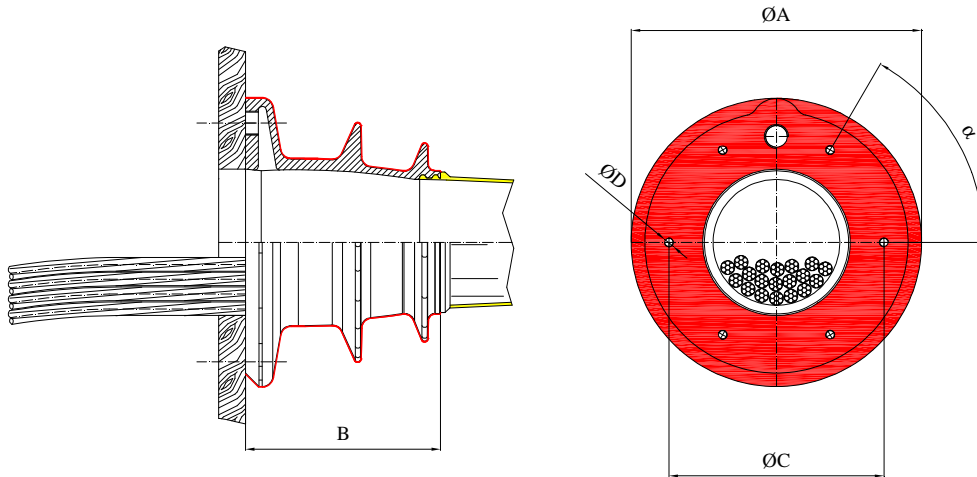
RECESSES FOR M_{EP}[®] ANCHORAGES



Type	4M15	7M15	9M15	12M15	15M15	19M15	22M15	27M15
A	160	200	235	265	290	320	355	380
B x B	200x200	240x240	275x275	305x305	330x330	360x360	395x395	420x420
C	160	160	160	160	160	180	180	190
α	15	15	15	15	15	15	15	15

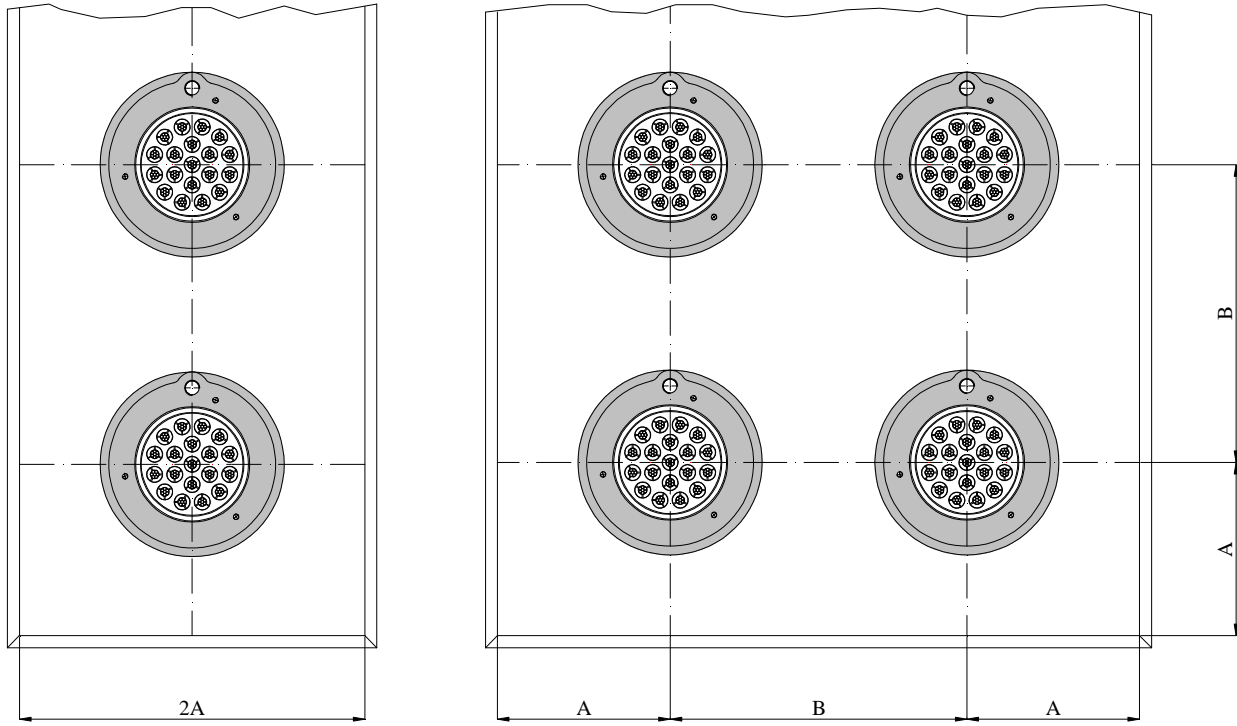
CONNECTION TO THE FORMWORK

The hole for grouting connection must be installed on the upper part of the anchorage to guarantee a correct discharge of all the air inside the cable.



Type	4M _{ep15}	7M _{ep15}	9M _{ep15}	12M _{ep15}	15M _{ep15}	19M _{ep15}	22M _{ep15}	27M _{ep15}
A	160	200	235	265	290	320	355	380
B	103	133	163	180	197	215	260	277
C	124	145	190	203	235	237	290	325
D	M6	M10	M10	M10	M12	M12	M16	M16
α	60°	60°	60°	60°	60°	60°	60°	60°

The distances from edges and between anchorages are the same for the three types of anchorage **M_{EP}[®]**, **MX[®]** and **M**



Minimum centres spacing B (mm)			Minimum edges distance A (mm)		
Type	$f_{cmj, cube}$		Type 35 MPa	$f_{cmj, cube}$	
	35 MPa	45 MPa			35 MPa
4M15	250	230	4M15	130	120
7M15	335	295	7M15	175	155
9M15	370	320	9M15	190	165
12M15	430	380	12M15	220	195
15M15	480	430	15M15	245	220
19M15	545	485	19M15	280	250
22M15	585	520	22M15	300	265
27M15	650	580	27M15	330	295