

M25 MRL 5557 EN 61386-2

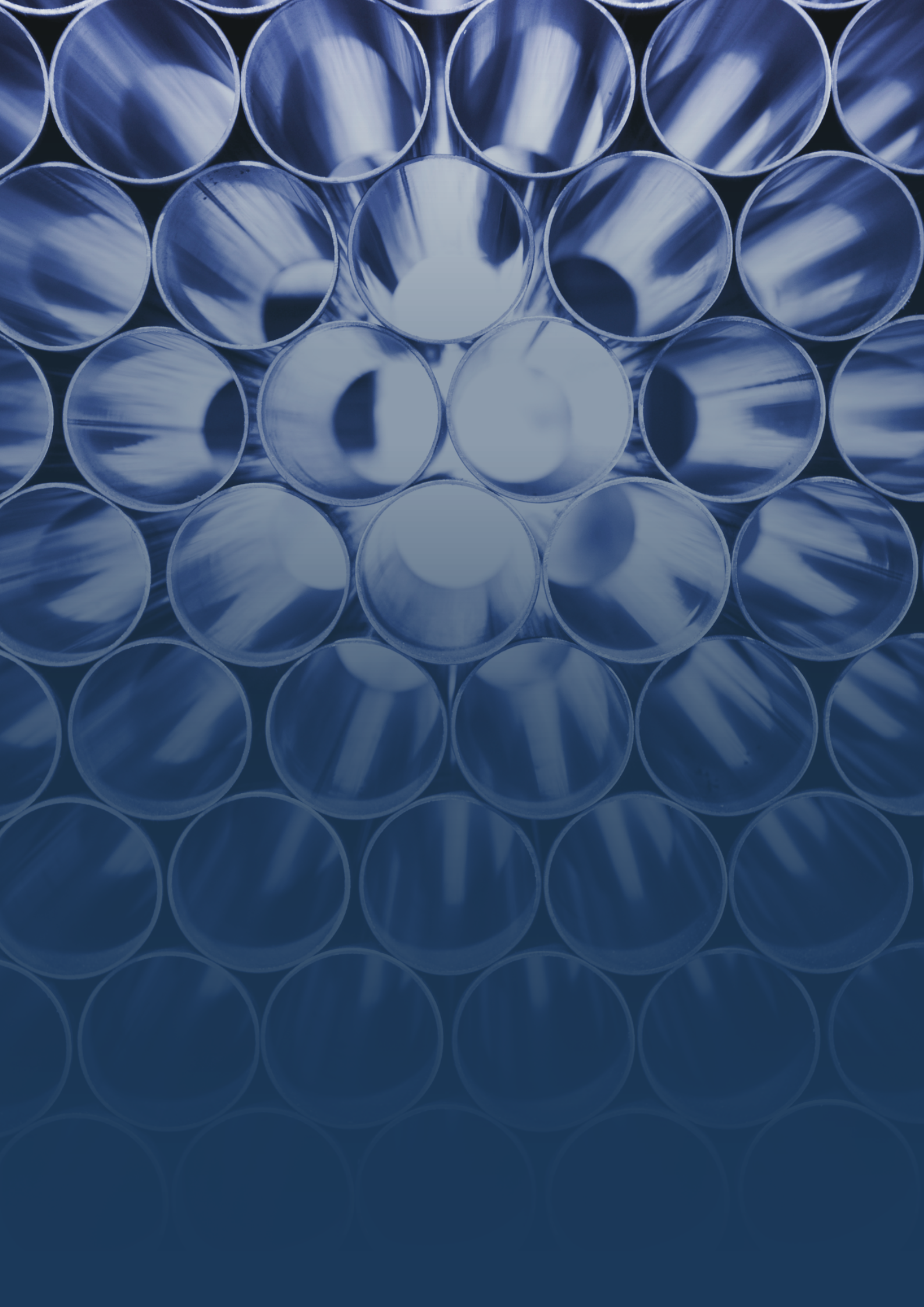
ARMENGOL ARMET

M25 MRL 5557 EN 61386-2



ARMENGOL

Security and Specialization



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The company

ARMENGOL is an industrial company with its own manufactured product where innovation in processes is a constant challenge. Specialized in the protection of electrical cables through their tube systems and electrical installations in general with their grounding material solutions.

Established in 1962, it is a third-generation family business that was originally dedicated to supporting the wine industry by manufacturing various accessories, and later providing solutions to the protection of electrical cables as a leading manufacturer of rigid steel tube systems.





ARMENGOL

Security and Specialization

Mission

To contribute, through our products, to safeguarding cables and electrical installations overall, ensuring the safety of both equipment and individuals.

Vision

To establish ourselves as a leading entity at the European level in the production and distribution of tube systems and grounding materials for safeguarding wiring and electrical installations. We aim to stay attuned to market evolution and needs, striving to create additional value through innovative product development that enhances sustainability.

Values

Specialization, quality, customer focus, commitment, teamwork, professionalism.

Quality politics

ARMENGOL's quality policy is based on the adequate achievement of customer satisfaction by meeting their expectations, which are: maintaining competitiveness in the market by offering our products in a timely manner and safeguarding their quality/price ratio.

For this, it is considered optimal to maintain a Quality Management System based on the achievement of objectives, the implementation of continuous improvement and the control of internal processes through indicators. As required by the ISO 9001: 2015 regulations and the AENOR and NF Quality marks that some of our products have.

The Management carries out, on a permanent basis, the evaluation of the application and effectiveness of these provisions,

guaranteeing the evolution and improvement of the Quality System and promoting cooperation and mutual respect of employees and suppliers.



Corporate social responsibility

At Armengol we firmly believe that the best investment is the one made to protect the environment, together with the set of actions that allow us to guarantee the safety of our workers. That is why both premises form the central core of our social responsibility as a company.

In this sense, we train our employees, encouraging their commitment to these aspects and prioritizing that all our activities, products and services are developed with the goal of the lowest environmental impact and the greatest possible risk prevention measures.

To this end, we guarantee compliance with current legislation and those technical requirements that allow us to continue improving our commitment to sustainability, the environment, and the health of our collaborators.

Key aspects:

- Know and evaluate constantly and objectively the direct and indirect impacts generated by all our processes, products, and services.
- Neutralize harmful emissions through active control of air, water and soil vectors; understanding that only in this way can we guarantee the progress and economic sustainability of our company.
- Evaluate the alternatives offered by the market for the selection of suppliers that can offer us the raw materials and services necessary to carry out our activity, which have the least environmental impact.
- Encourage the training and qualification of all employees to encourage participation in business improvement, also at an environmental level.

Rigid tube System

Electrogalvanized rigid tube system hot


Dip galvanized rigid tube system

Stainless Steel rigid tube system

PVC rigid tube system

LH rigid tube system

Threading tools



Rigid tube systems are specially designed to provide adequate protection and guidance of interior wiring according to different needs and locations available.

Each type of material and coating has established a recommended area of use.

Electrogalvanized rigid tube system

It is perfect for its use in installations or environments where a level of protection against possible mechanical impacts or with a risk of explosion is sought, such as premises of public attendance, automotive workshops, parking lots, both outdoors and underground, and mechanical transformation industry. Its protection level (5557 according to IEC 61386) makes it the ideal option to protect electric vehicle charging stations.

Furthermore, following the correct installation regulations, they have a degree of protection IP 54, are not flame spreaders and have an electrical conductivity of less than 0.05 Ohm/m.

They offer internal and external corrosion resistance of grade 2 out of 4 according to IEC 61386 (medium protection).



Infrastructure



Tertiary/service



Machinery



Electric vehicle



Industrial



Energy

EG ARMET RIGID TUBE

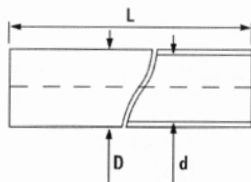
DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Exterior D (mm)	Tolerance Ø Exterior (mm)	Ø Interior Min. d (mm)	Length L (mm)	Packaging (m)	Weight (kg/m)	EAN13 code
010TARM016	16	+ 0 / - 0,3	12,8	3000	51	0,389	8435179000001
010TARM020	20	+ 0 / - 0,3	16,6	3000	30	0,487	8435179000018
010TARM025	25	+ 0 / - 0,4	20,0	3000	30	0,612	8435179000025
010TARM032	32	+ 0 / - 0,4	25,6	3000	21	0,942	8435179000032
010TARM040	40	+ 0 / - 0,4	32,0	3000	15	1,178	8435179000049
010TARM050	50	+ 0 / - 0,4	41,2	3000	15	1,714	8435179000056
010TARM063	63	+ 0 / - 0,4	51,0	3000	9	2,326	8435179000063

TECHNICAL SPECIFICATIONS ACCORDING TO IEC 61386-21 STANDARD

Code: 555711542010. Use temperature: -45°C +400°C. Compressive strength: >4,000 N. Impact resistance: > 20J at -45°C. Corrosion resistance of pipe systems: Half. No flame propagating.

Material: DC03 quality cold rolled strap according to UNE-EN 10130 standard.
Finish: Electrogalvanized UNIFIX™ (Zinc Plated+Passivated+Sealed).



ROS EG RIGID TUBE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

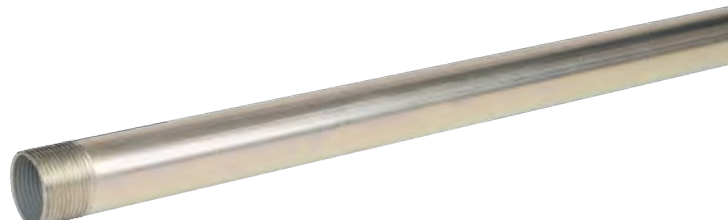
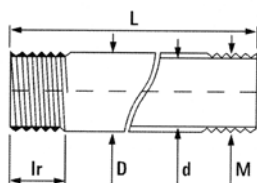
Reference	Ø Exterior D (mm)	Tolerance Ø Exterior (mm)	Thread M	lr Min. (mm)	Ø Interior Min. d (mm)	Length L (mm)	Packaging (m)	Weight (kg/m)	EAN13 code
010TROM016	16	+ 0 / - 0,3	M16x1,5	12,5	12,8	3000	51	0,462	8435179000070
010TROM020	20	+ 0 / - 0,3	M20x1,5	14,0	16,6	3000	30	0,579	8435179000087
010TROM025	25	+ 0 / - 0,4	M25x1,5	17,0	20,8	3000	30	0,730	8435179000094
010TROM032	32	+ 0 / - 0,4	M32x1,5	19,0	26,4	3000	21	1,094	8435179000100
010TROM040	40	+ 0 / - 0,4	M40x1,5	19,0	33,0	3000	15	1,374	8435179000117
010TROM050	50	+ 0 / - 0,4	M50x1,5	19,0	41,2	3000	15	1,714	8435179000124
010TROM063	63	+ 0 / - 0,4	M63x1,5	19,0	52,8	3000	9	2,629	8435179000131

TECHNICAL SPECIFICATIONS ACCORDING TO IEC 61386-21 STANDARD

Code: 555711542010. Use temperature: -45°C +400°C. Compressive strength: >4,000 N. Impact resistance: > 20J at -45°C. Corrosion resistance of pipe systems: Half. No flame propagating.

Material: DC03 quality cold rolled strap according to UNE-EN 10130 standard.
Finish: Electrogalvanized UNIFIX™ (Zinc Plated+Passivated+Sealed).

Note: The EG ROS rigid tube is supplied with a union sleeve at one end.

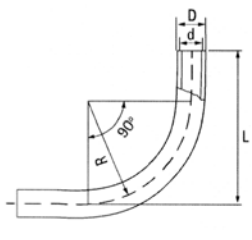


ARMET EG 90° CURVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Exterior D (mm)	Tolerance Ø Exterior (mm)	Ø Interior Min. d (mm)	Length L (mm)	Radio R (mm)	Angle	Packaging (u)	Weight (kg/u)	EAN13 code
020CARM016	16	+ 0 / - 0,3	12,8	165	105	90°	10	0,139	8435179000421
020CARM020	20	+ 0 / - 0,3	16,0	176	110	90°	10	0,185	8435179000438
020CARM025	25	+ 0 / - 0,4	20,0	186	130	90°	10	0,227	8435179000445
020CARM032	32	+ 0 / - 0,4	25,6	216	145	90°	10	0,401	8435179000452
020CARM040	40	+ 0 / - 0,4	32,0	267	165	90°	5	0,611	8435179000469
020CARM050	50	+ 0 / - 0,4	41,2	326	185	90°	5	1,146	8435179000476
020CARM063	63	+ 0 / - 0,4	51,0	510	328	90°	3	1,980	8435179000483

Material: DC03 quality cold rolled strap according to UNE-EN 10130 standard.
Finish: Electrogalvanized UNIFIX™ (Zinc Plated+Passivated+Sealed).



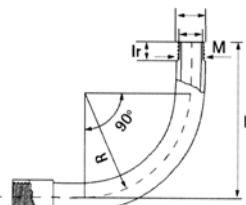
ROS EG 90° CURVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Exterior D (mm)	Tolerance Ø Exterior	Thread M	Ir Min. (mm)	Ø Interior Min. d (mm)	Length L (mm)	Radio R (mm)	Angle	Packaging (u)	Weight (kg/u)	EAN13 code
020CROM016	16	+ 0 / - 0,3	M16x1,5	12,5	12,8	165	105	90°	10	0,130	8435179000551
020CROM020	20	+ 0 / - 0,3	M20x1,5	14,0	16,6	176	110	90°	10	0,181	8435179000568
020CROM025	25	+ 0 / - 0,4	M25x1,5	17,0	20,8	186	130	90°	10	0,225	8435179000575
020CROM032	32	+ 0 / - 0,4	M32x1,5	19,0	26,4	216	145	90°	10	0,411	8435179000582
020CROM040	40	+ 0 / - 0,4	M40x1,5	19,0	33,0	267	165	90°	5	0,633	8435179000599
020CROM050	50	+ 0 / - 0,4	M50x1,5	19,0	41,2	326	185	90°	5	1,197	8435179000605
020CROM063	63	+ 0 / - 0,4	M63x1,5	19,0	52,8	510	328	90°	3	2,705	8435179000612

Material: DC03 quality cold rolled strap according to UNE-EN 10130 standard.
Finish: Electrogalvanized UNIFIX™ (Zinc Plated+Passivated+Sealed).

Note: The EG ROS 90° rigid bend is supplied with a union sleeve at one end.

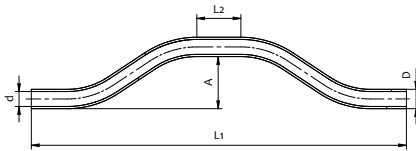


ARMET EG BOW

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Exterior D (mm)	Tolerance Ø Exterior (mm)	Ø Interior Min. d (mm)	Length 1 L1 (mm)	Length 2 L2 (mm)	Altura A (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
017ASRM016	16	+ 0 / - 0,3	12,8	468	55	65	3	0,389	8435179008588
017ASRM020	20	+ 0 / - 0,3	16,0	526	85	65	3	0,487	8435179008595
017ASRM025	25	+ 0 / - 0,4	20,0	628	105	65	3	0,612	8435179008601
017ASRM032	32	+ 0 / - 0,4	25,6	667	105	65	3	0,942	8435179008618

Material: DC03 quality cold rolled strap according to UNE-EN 10130 standard.
Finish: Electrogalvanized UNIFIX™ (Zinc Plated+Passivated+Sealed).



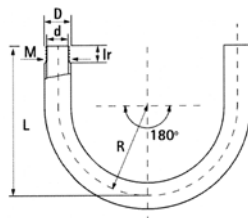
ROS EG 180° CURVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Exterior D (mm)	Tolerance Ø Exterior	Thread M	lr Min. (mm)	Ø Interior Min. d (mm)	Length L (mm)	Radio R (mm)	Angle	Packaging (u)	Weight (kg/u)	EAN13 code
020CROUM32	32	+ 0 / - 0,4	M32x1,5	19,0	26,4	216	145	180°	5	1,043	8435179000629
020CROUM40	40	+ 0 / - 0,4	M40x1,5	19,0	33,0	267	165	180°	5	1,599	8435179000636
020CROUM50	50	+ 0 / - 0,4	M50x1,5	19,0	41,2	326	185	180°	3	3,759	8435179000643

Material: DC03 quality cold rolled strap according to UNE-EN 10130 standard.
Finish: Electrogalvanized UNIFIX™ (Zinc Plated+Passivated+Sealed).

Note: The EG ROS 180° rigid bend is supplied with a union sleeve at one end.



ROS FLEXIBLE METALLIC CURVE

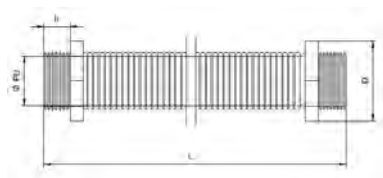
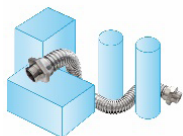
DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Useful step PU (mm)	Ø Exterior D (mm)	Thread	Length L (mm)	Radio curvature (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
020CRFM016	M16	13,0	27,4	M16x1,5	300	27	1	0,030	8435179010789
020CRFM020	M20	16,0	31,0	M20x1,5	350	34	1	0,050	8435179010796
020CRFM025	M25	21,0	37,9	M25x1,5	430	41	1	0,070	8435179010802
020CRFM032	M32	26,0	49,4	M32x1,5	490	49	1	0,100	8435179010819
020CRFM040	M40	33,0	59,8	M40x1,5	570	62	1	0,130	8435179010826
020CRFM050	M50	41,0	65,6	M50x1,5	690	77	1	0,170	8435179010833

Material: End fittings: Nickel-plated brass. Intermediate tube: Stainless steel type AISI304 – 1.4301 (X5CrNi18-10).

Utility: Especially indicated when the cable management system must run through areas with obvious obstacles that must be overcome (for example, a column or a change of direction). This fact significantly reduces the installation cost as it reduces the installation time and the number of accessories necessary to make the connection. It also serves as a corrective element in an installation that has alignment defects in the installed tubes, as it can be curved from 0 to 180° and be readapted even after assembly.

To adapt the flexible curve to a plug-in system it is necessary to use a threaded coupling sleeve with female thread.



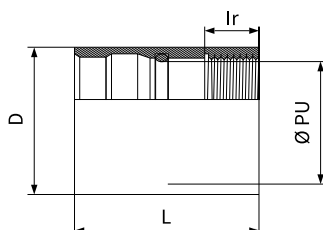
FEMALE THREAD COUPLING SLEEVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Useful step PU (mm)	Ø Exterior D (mm)	Thread	lr (mm)	Length L (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
020MAHM016	M16	12,5	22,0	M16x1,5	9	35	25	0,038	8435179010901
020MAHM020	M20	16,5	26,0	M20x1,5	9	35	10	0,045	8435179010918
020MAHM025	M25	22,0	32,0	M25x1,5	9	35	5	0,068	8435179010925
020MAHM032	M32	28,0	39,0	M32x1,5	9	35	5	0,082	8435179010932
020MAHM040	M40	35,0	47,0	M40x1,5	9	35	5	0,170	8435179010949
020MAHM050	M50	45,0	57,0	M50x1,5	9	35	5	0,230	8435179010956

Material: Nickel – plated brass.

Utility: Female thread coupling sleeves are used to join a threaded tube system to a pluggable tube system and vice versa. They guarantee a degree of protection IP67 at a working temperature between -25°C and +150°C.

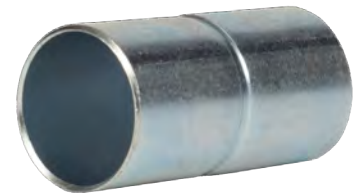
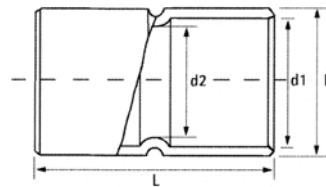


ARMET EG SLEEVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior D (mm)	Ø Interior d1 (mm)	Ø Interior d2 (mm)	Length L (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
020MARM016	M16	18,3	16,3	13,8	45,0	100	0,022	8435179000858
020MARM020	M20	22,3	20,3	17,8	50,0	100	0,030	8435179000865
020MARM025	M25	27,3	25,3	22,8	55,0	60	0,040	8435179000872
020MARM032	M32	35,4	32,4	29,9	65,0	30	0,091	8435179000889
020MARM040	M40	43,4	40,4	37,9	70,0	25	0,121	8435179000896
020MARM050	M50	53,4	50,4	47,9	90,0	12	0,190	8435179000902
020MARM063	M63	66,5	63,5	61,0	105,0	6	0,275	8435179000919

Material: Calibrated steel tube E235+C according to UNE-EN 10305-2 standard.
Finish: Electrogalvanized.

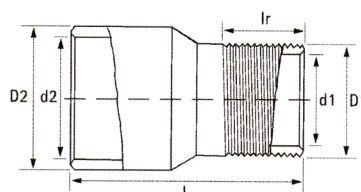


EG COUPLING SLEEVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior D1 (mm)	Ø Interior d1 (mm)	Thread	lr Min. (mm)	Ø Exterior D2 (mm)	Ø Interior d2 (mm)	Length L (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
020MACM016	M16	16	11,9	M16x1,5	15	20,3	16,2	44	25	0,035	8435179000780
020MACM020	M20	20	15,9	M20x1,5	15	24,3	20,2	48	25	0,048	8435179000797
020MACM025	M25	25	20,9	M25x1,5	17	29,3	25,2	55	25	0,070	8435179000803
020MACM032	M32	32	28,0	M32x1,5	20	36,4	32,4	63	25	0,104	8435179000810
020MACM040	M40	40	36,0	M40x1,5	22	44,4	40,4	68	25	0,142	8435179000827
020MACM050	M50	50	46,0	M50x1,5	27	54,4	50,4	83	12	0,216	8435179000834
020MACM063	M63	63	59,0	M63x1,5	30	67,5	63,5	95	6	0,312	8435179000841

Material: Calibrated steel tube E235+C according to UNE-EN 10305-2 standard.
Finish: Electrogalvanized.

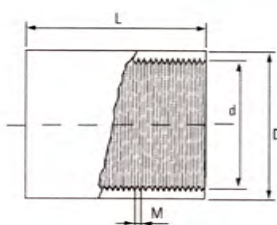


ROS EG SLEEVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior D (mm)	Ø Interior d (mm)	Thread M	Length L (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
020MROM016	M16	18,5	14,5	M16x1,5	30	50	0,020	8435179000995
020MROM020	M20	22,5	18,5	M20x1,5	35	50	0,030	8435179001008
020MROM025	M25	27,5	23,5	M25x1,5	40	40	0,040	8435179001015
020MROM032	M32	34,5	30,5	M32x1,5	43	40	0,060	8435179001022
020MROM040	M40	42,5	38,5	M40x1,5	43	25	0,070	8435179001039
020MROM050	M50	52,5	48,5	M50x1,5	52	10	0,120	8435179001046
020MROM063	M63	65,5	61,5	M63x1,5	63	9	0,150	8435179001053

Material: Calibrated steel tube E235+C according to UNE-EN 10305-2 standard.
Finish: Electrogalvanized.

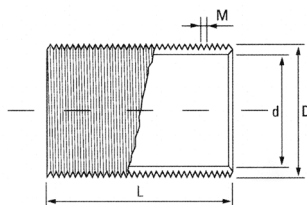


EG EXTERNAL THREAD SLEEVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Exterior D (mm)	Ø Interior d (mm)	Thread M	Length L (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
020MREM016	16	13,8	M16x1,5	30	50	0,008	8435179000926
020MREM020	20	17,8	M20x1,5	35	50	0,011	8435179000933
020MREM025	25	22,8	M25x1,5	40	40	0,020	8435179000940
020MREM032	32	29,2	M32x1,5	43	40	0,030	8435179000957
020MREM040	40	37,2	M40x1,5	43	25	0,036	8435179000964
020MREM050	50	47,2	M50x1,5	52	10	0,060	8435179000971
020MREM063	63	60,0	M63x1,5	63	9	0,121	8435179000988

Material: Cold rolled steel strip with low carbon content quality type DC03 according to EN 10130 standard.
Finish: Electrogalvanized.

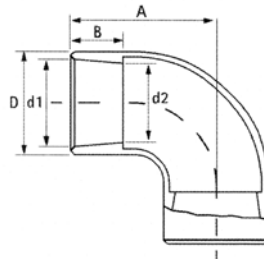


ARMET AL ELBOW

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior D (mm)	Ø Interior d1 (mm)	Ø Interior d2 (mm)	A (mm)	B (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
020CRAM016	M16	21	16,3	15,5	39	17	25	0,038	8435179000490
020CRAM020	M20	28	20,3	19,5	51	22	25	0,093	8435179000506
020CRAM025	M25	36	25,3	24,4	57	27	20	0,140	8435179000513
020CRAM032	M32	46	32,4	31,4	73	32	8	0,295	8435179000520
020CRAM040	M40	46	40,4	39,4	73	32	8	0,224	8435179000537
020CRAM050	M50	57	50,4	49,3	96	44	4	0,360	8435179000544

Material: Aluminium fundition.

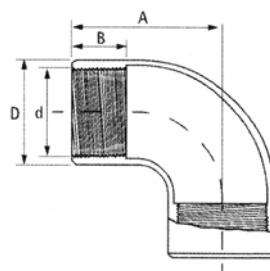


ROS AL ELBOW

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior D (mm)	Ø Interior d1 (mm)	Thread	A (mm)	B (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
020CRRM016	M16	21	14,5	M16x1,5	39	17	25	0,044	8435179000650
020CRRM020	M20	28	18,5	M20x1,5	51	22	25	0,093	8435179000667
020CRRM025	M25	36	23,5	M25x1,5	57	27	20	0,140	8435179000674
020CRRM032	M32	46	30,5	M32x1,5	73	32	8	0,295	8435179000681
020CRRM040	M40	46	38,5	M40x1,5	73	32	8	0,224	8435179000698
020CRRM050	M50	57	48,5	M50x1,5	96	44	4	0,360	8435179000704

Material: Aluminium fundition.



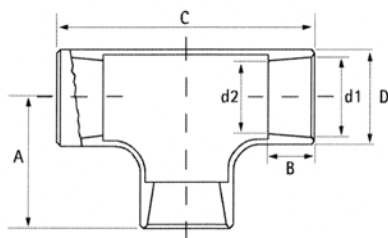
ARMET AL TEE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior D (mm)	Ø Interior d1 (mm)	Ø Interior d2 (mm)	A (mm)	B (mm)	C (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
020TRAM016	M16	21	16,3	15,5	37	16	72	15	0,073	8435179001060
020TRAM020	M20	28	20,3	19,5	51	22	102	18	0,127	8435179001077
020TRAM025	M25	36	25,3	24,4	57	27	115	10	0,221	8435179001084
020TRAM032	M32	46	32,4	31,4	77	34	156	4	0,920	8435179001091
020TRAM040	M40	46	40,4	39,4	77	34	156	4	0,688	8435179001107
020TRAM050	M50	57	50,4	49,3	96	44	194	2	1,155	8435179001114

Material: Aluminium fundition.

Utility: The registration tees can also be used to avoid condensation inside the tubes, leaving one of the arms unused. In this way, correct ventilation inside the tube is ensured.



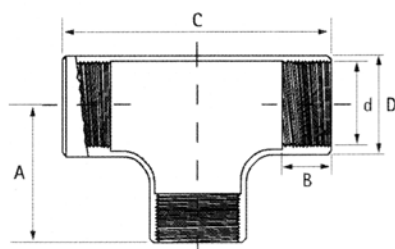
ROS AL TEE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior D (mm)	Ø Interior d1 (mm)	Thread	A (mm)	B (mm)	C (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
020TRRM016	M16	21	14,5	M16x1,5	37	16	72	15	0,073	8435179001121
020TRRM020	M20	28	18,5	M20x1,5	51	22	102	18	0,127	8435179001138
020TRRM025	M25	36	23,5	M25x1,5	57	27	115	10	0,221	8435179001145
020TRRM032	M32	46	30,5	M32x1,5	77	34	156	4	0,920	8435179001152
020TRRM040	M40	46	38,5	M40x1,5	77	34	156	4	0,688	8435179001169
020TRRM050	M50	57	48,5	M50x1,5	96	44	194	2	1,155	8435179001176

Material: Aluminium fundition.

Utility: The registration tees can also be used to avoid condensation inside the tubes, leaving one of the arms unused. In this way, correct ventilation inside the tube is ensured.



EXPANSION COMPENSATOR SLEEVE

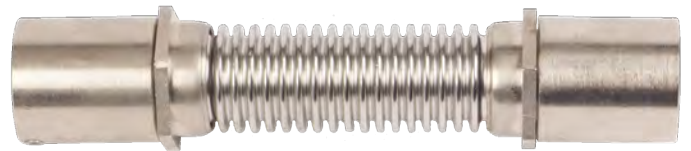
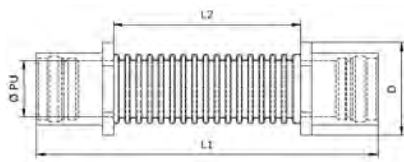
DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Useful step PU (mm)	Ø Exterior D (mm)	Length L1 (mm)	Length L2 (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
020MCDM016	M16	12,5	22,0	138,5	44,0	5	0,100	8435179010840
020MCDM020	M20	16,5	26,0	149,5	56,0	5	0,140	8435179010857
020MCDM025	M25	22,0	32,0	165,0	71,5	5	0,170	8435179010864
020MCDM032	M32	28,0	39,0	181,0	80,5	2	0,210	8435179010871
020MCDM040	M40	35,0	47,0	210,0	103,5	2	0,250	8435179010888
020MCDM050	M50	45,0	57,0	280,0	140,0	1	0,290	8435179010895

Material: End fittings: Nickel-plated brass. Intermediate tube: Stainless steel type AISI304 – 1.4301 (X5CrNi18-10).

Utility: The expansion compensating sleeves allow possible unforeseen axial movements to be absorbed along the generating axis of the tube, as well as expansion or vibrations. Its use, therefore, is especially indicated in areas where the pipeline runs through joint areas.

They guarantee a degree of protection IP67 at a working temperature between -25°C and +150°C.

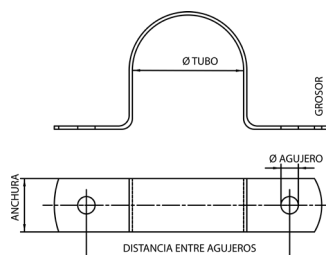


DP EG CLAMP

Reference	Ø Exterior Tubo (mm)	Ø Agujero (mm)	Anchura (mm)	Distance between holes (mm)	Thickness (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
020GDPM016	16	6,5	14	37	1,2	150	0,009	8435179000711
020GDPM020	20	6,5	14	40	1,2	250	0,011	8435179000728
020GDPM025	25	6,5	16	47	1,2	200	0,014	8435179000735
020GDPM032	32	6,5	16	52	1,2	150	0,017	8435179000742
020GDPM040	40	6,5	20	62	1,2	100	0,025	8435179000759
020GDPM050	50	6,5	20	72	1,2	50	0,030	8435179000766
020GDPM063	63	6,5	20	85	1,2	50	0,037	8435179000773

Material: Low carbon cold rolled steel strip quality DC03 according to EN 10130 standard.

Finish: Electrogalvanized.



Hot dip galvanized rigid tube system

It has the same characteristics as the Electro Galvanized tube but increasing the corrosion resistance to grade 4 according to IEC 61386 (very high protection).



Infrastructure



Chemical sector



Industrial



Energy

ARMET HD RIGID TUBE

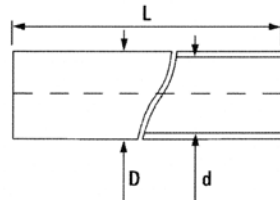
DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Exterior D (mm)	Tolerance Ø Exterior (mm)	Ø Interior Min. d (mm)	Length L (mm)	Packaging (m)	Weight (kg/m)	EAN13 code
010TARMG16	16	+ 0 / - 0,3	12,8	3000	51	0,448	8435179008076
010TARMG20	20	+ 0 / - 0,3	16,0	3000	30	0,565	8435179008083
010TARMG25	25	+ 0 / - 0,4	20,0	3000	30	0,704	8435179008090
010TARMG32	32	+ 0 / - 0,4	25,6	3000	21	1,083	8435179008106
010TARMG40	40	+ 0 / - 0,4	32,0	3000	15	1,353	8435179008113
010TARMG50	50	+ 0 / - 0,4	41,2	3000	15	1,969	8435179008120
010TARMG63	63	+ 0 / - 0,4	51,0	3000	9	2,670	8435179008137

TECHNICAL SPECIFICATIONS ACCORDING TO IEC 61386-21 STANDARD

Code: 555711544010. Use temperature: -45°C +400°C. Compressive strength: >4,000 N. Impact resistance: > 20J at -45°C. Corrosion resistance of pipe systems: High. No flame propagating.

Material: DC03 quality cold rolled strap according to UNE EN 10130 standard.
Finish: Hot dip galvanized, Passivated and UNIFIX™ sealed.



ROS HD RIGID TUBE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

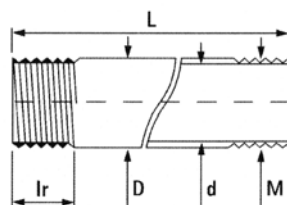
Reference	Ø Exterior D (mm)	Tolerance Ø Exterior (mm)	Thread M	lr Min.(mm)	Ø Interior Min. d (mm)	Length L (mm)	Packaging (m)	Weight (kg/m)	EAN13 code
010TROMG16	16	+ 0 / - 0,3	M16x1,5	12,5	12,8	3000	51	0,532	8435179007864
010TROMG20	20	+ 0 / - 0,3	M20x1,5	14,0	16,6	3000	30	0,672	8435179007871
010TROMG25	25	+ 0 / - 0,4	M25x1,5	17,0	20,8	3000	30	0,813	8435179007888
010TROMG32	32	+ 0 / - 0,4	M32x1,5	19,0	26,4	3000	21	1,217	8435179007895
010TROMG40	40	+ 0 / - 0,4	M40x1,5	19,0	33,0	3000	15	1,554	8435179007901
010TROMG50	50	+ 0 / - 0,4	M50x1,5	19,0	41,2	3000	15	1,969	8435179007918
010TROMG63	63	+ 0 / - 0,4	M63x1,5	19,0	52,8	3000	9	3,018	8435179007925

TECHNICAL SPECIFICATIONS ACCORDING TO IEC 61386-21 STANDARD

Code: 555711544010. Use temperature: -45°C +400°C. Compressive strength: >4,000 N. Impact resistance: > 20J at -45°C. Corrosion resistance of pipe systems: High. No flame propagating.

Material: DC03 quality cold rolled strap according to UNE EN 10130 standard.
Finish: Hot dip galvanized, Passivated and UNIFIX™ sealed.

Note: The HD ROS rigid tube is supplied with a union sleeve at one end.

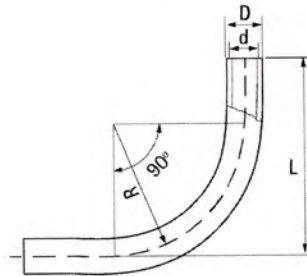


ARMET HD 90° CURVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Exterior D (mm)	Tolerance Ø Exterior (mm)	Ø Interior Min. d (mm)	Length L (mm)	Radio R (mm)	Angle	Packaging (u)	Weight (kg/u)	EAN13 code
020CARMG16	16	+ 0 / - 0,3	12,8	165	105	90°	10	0,130	8435179008144
020CARMG20	20	+ 0 / - 0,3	16,0	176	110	90°	10	0,181	8435179008151
020CARMG25	25	+ 0 / - 0,4	20,0	186	130	90°	10	0,225	8435179008168
020CARMG32	32	+ 0 / - 0,4	25,6	216	145	90°	10	0,411	8435179008175
020CARMG40	40	+ 0 / - 0,4	32,0	267	165	90°	5	0,633	8435179008182
020CARMG50	50	+ 0 / - 0,4	41,2	326	185	90°	5	1,197	8435179008199
020CARMG63	63	+ 0 / - 0,4	51,0	510	328	90°	3	2,705	8435179008205

Material: DC03 quality cold rolled strap according to UNE EN 10130 standard.
Finish: Hot dip galvanized, Passivated and UNIFIX™ sealed.



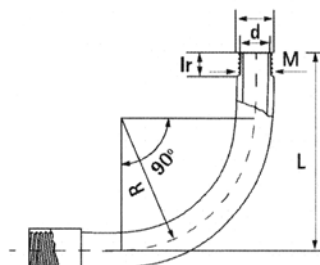
ROS HD 90° CURVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Exterior D (mm)	Tolerance Ø Exterior (mm)	Thread M	lr Min. (mm)	Ø Interior Min. d (mm)	Length L (mm)	Radio R (mm)	Angle	Packaging (u)	Weight (kg/u)	EAN13 code
020CROMG16	16	+ 0 / - 0,3	M16x1,5	12,5	12,8	165	105	90°	10	0,154	8435179007932
020CROMG20	20	+ 0 / - 0,3	M20x1,5	14,0	16,6	176	110	90°	10	0,215	8435179007949
020CROMG25	25	+ 0 / - 0,4	M25x1,5	17,0	20,8	186	130	90°	10	0,269	8435179007956
020CROMG32	32	+ 0 / - 0,4	M32x1,5	19,0	26,4	216	145	90°	10	0,478	8435179007963
020CROMG40	40	+ 0 / - 0,4	M40x1,5	19,0	33,0	267	165	90°	5	0,739	8435179007970
020CROMG50	50	+ 0 / - 0,4	M50x1,5	19,0	41,2	326	185	90°	5	1,197	8435179007987
020CROMG63	63	+ 0 / - 0,4	M63x1,5	19,0	52,8	510	328	90°	3	3,058	8435179007994

Material: DC03 quality cold rolled strap according to UNE EN 10130 standard.
Finish: Hot dip galvanized, Passivated and UNIFIX™ sealed.

Note: The HD ROS 90° rigid bend is supplied with a union sleeve on one end

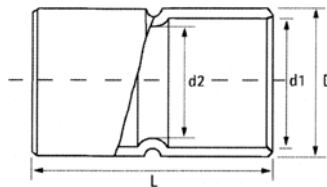


ARMET HD SLEEVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior D (mm)	Ø Interior d1 (mm)	Ø Interior d2 (mm)	Length L (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
020MARMG16	M16	18,3	16,3	13,8	45	100	0,024	8435179008212
020MARMG20	M20	22,3	20,3	17,8	50	100	0,033	8435179008229
020MARMG25	M25	27,3	25,3	22,8	55	60	0,044	8435179008236
020MARMG32	M32	35,4	32,4	29,9	65	30	0,100	8435179008243
020MARMG40	M40	43,4	40,4	37,9	70	25	0,133	8435179008250
020MARMG50	M50	53,4	50,4	47,9	90	12	0,208	8435179008267
020MARMG63	M63	66,5	63,5	61,0	105	6	0,300	8435179008274

Material: Calibrated steel tube E235+C according to UNE-EN 10305-2 standard.
Finish: Hot galvanized according to UNE EN ISO 1461 standard.

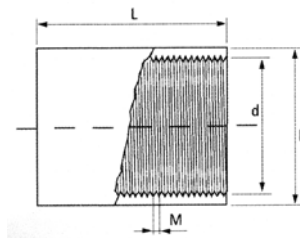


ROS HD SLEEVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior D (mm)	Ø Interior d (mm)	Thread M	Length L (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
020MROMG16	M16	18,5	14,5	M16x1,5	30	50	0,023	8435179008007
020MROMG20	M20	22,5	18,5	M20x1,5	35	50	0,034	8435179008014
020MROMG25	M25	27,5	23,5	M25x1,5	40	40	0,046	8435179008021
020MROMG32	M32	34,5	30,5	M32x1,5	43	40	0,067	8435179008038
020MROMG40	M40	42,5	38,5	M40x1,5	43	25	0,080	8435179008045
020MROMG50	M50	52,5	48,5	M50x1,5	52	10	0,134	8435179008052
020MROMG63	M63	65,5	61,5	M63x1,5	63	9	0,171	8435179008069

Material: Calibrated steel tube E235+C according to UNE-EN 10305-2 standard.
Finish: Hot galvanized according to UNE EN ISO 1461 standard.



Stainless steel rigid tube system

It further increases corrosion resistance, also complying with food industry standards, while maintaining the same mechanical resistance.



Infrastructure



Chemical sector



Feeding



Marine



Industrial



Energy

ARMET SS AISI 304 RIGID TUBE

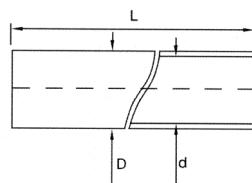
DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Exterior D (mm)	Tolerance Ø Exterior (mm)	Ø Interior d (mm)	Length L (mm)	Packaging (m)	Weight (kg/m)	EAN13 code
060TARMI20	20	+ 0 / - 0,3	18,0	3000	30	0,476	8435179008922
060TARMI25	25	+ 0 / - 0,4	23,0	3000	30	0,601	8435179008939
060TARMI32	32	+ 0 / - 0,4	29,6	3000	21	0,925	8435179008946
060TARMI40	40	+ 0 / - 0,4	37,6	3000	15	1,160	8435179008953
060TARMI50	50	+ 0 / - 0,4	47,0	3000	15	1,822	8435179008960

TECHNICAL SPECIFICATIONS ACCORDING TO IEC 61386-21 STANDARD

Code: 555711544010. Use temperature: -45°C +400°C. Compressive strength: >4,000 N. Impact resistance: > 20J at -45°C. Corrosion resistance of pipe systems: High. No flame propagating.

Material: AISI 304 – 1.4301 - XrCrNi8-10.
Finish: Fine Brushed w2/Satin Look.

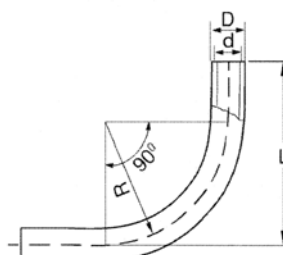


ARMET SS AISI 304 90° CURVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Exterior D (mm)	Tolerance Ø Exterior (mm)	Ø Interior Min. d (mm)	Length L (mm)	Radio R (mm)	Angle	Packaging (u)	Weight (kg/u)	EAN13 code
061CARMi20	20	+ 0 / - 0,3	18,0	176	110	90°	5	0,110	8435179008977
061CARMi25	25	+ 0 / - 0,4	23,0	186	130	90°	5	0,156	8435179008984
061CARMi32	32	+ 0 / - 0,4	29,6	216	145	90°	5	0,221	8435179008991
061CARMi40	40	+ 0 / - 0,4	37,6	267	165	90°	5	0,596	8435179009004
061CARMi50	50	+ 0 / - 0,4	47,0	326	185	90°	1	1,023	8435179009011

Material: AISI 304 – 1.4301 - XrCrNi8-10.
Finish: Fine Brushed w2/Satin Look.

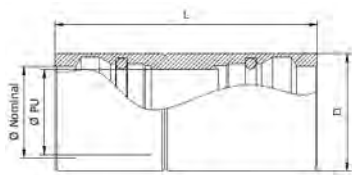


ARMET SS AISI 304 STANDARD SLEEVE IP - 67

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Useful step PU (mm)	Ø Exterior D (mm)	Length L (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
061MASMI20	M20	16,5	26	63	5	0,090	8435179010963
061MASMI25	M25	22,0	32	63	5	0,120	8435179010970
061MASMI32	M32	28,0	39	63	5	0,150	8435179010987
061MASMI40	M40	35,0	47	63	5	0,180	8435179010994
061MASMI50	M50	45,0	57	63	1	0,210	8435179011007

Material: AISI 304 – 1.4301 - XrCrNi8-10.
Finish: Fine w2/Satin Look.

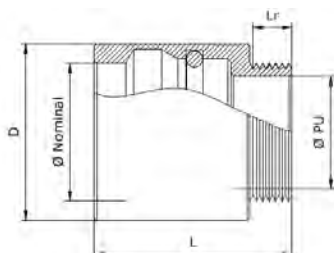


SS AISI 304 COUPLING SLEEVE IP - 67

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior D (mm)	Ø Useful step PU (mm)	Thread	lr (mm)	Length L (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
061MACMI20	M20	26	16,5	M20X1,5	9	37	5	0,039	8435179009073
061MACMI25	M25	32	22,0	M25X1,5	9	37	5	0,058	8435179009080
061MACMI32	M32	39	28,0	M32X1,5	9	37	5	0,076	8435179009097
061MACMI40	M40	47	35,0	M40X1,5	9	37	5	0,099	8435179009103
061MACMI50	M50	57	45,0	M50X1,5	9	37	1	0,099	8435179009110

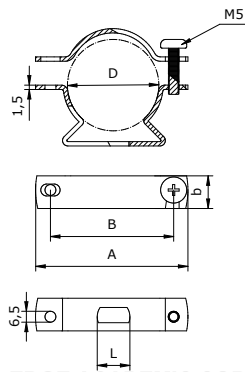
Material: TP304 – 1.4301 - XrCrNi8-10 (AISI 304).
Finish: Fine w2/Satin Look.



SS AISI 304 FIXING CLAMP

Reference	Ø Nominal	Ø D (mm)	A (mm)	B (mm)	b (mm)	L (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
061ABRMI20	M20	21	50	37	14	10	75	0,025	8435179009127
061ABRMI25	M25	29	58	42	16	10	50	0,035	8435179009134
061ABRMI34	M32-40	38	70	54	16	10	20	0,035	8435179009141
061ABRMI50	M50	54	86	68	18	14	20	0,054	8435179009165

Material: AISI 304 – 1.4301 - XrCrNi8-10.
Finish: Passivated/Matte appearance.



EDGE ACADEMIC COPY



PVC rigid tube system

Suitable for indoor use in places with low mechanical liability, typical use: public places, schools, hospitals and residential buildings. Corrosion resistant and flame retardant.



ARMET PVC RIGID TUBE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

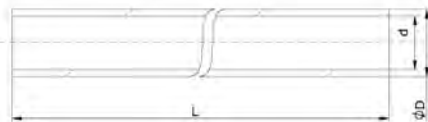
Reference	Ø Exterior D (mm)	Tolerance Ø Exterior (mm)	Ø Interior Min. d (mm)	Length L (mm)	Packaging (m)	Weight (kg/m)	EAN13 code
070TAMPV16	16,0	+ 0 / - 0,3	10,7	3000	57	0,107	8435179009271
070TAMPV20	20,0	+ 0 / - 0,3	14,1	3000	57	0,136	8435179009288
070TAMPV25	25,0	+ 0 / - 0,4	18,3	3000	57	0,193	8435179009295
070TAMPV32	32,0	+ 0 / - 0,4	25,3	3000	30	0,259	8435179009301
070TAMPV40	40,0	+ 0 / - 0,4	31,2	3000	30	0,345	8435179009318
070TAMPV50	50,0	+ 0 / - 0,4	39,6	3000	15	0,532	8435179009325
070TAMPV63	63,0	+ 0 / - 0,4	52,6	3000	15	0,626	8435179009332

TECHNICAL SPECIFICATIONS ACCORDING TO IEC 61386-21 STANDARD

Code: 432112540010. Use temperature: -5°C +60°C. Compressive strength: >1,250 N. Impact resistance: >2J at -5°C. No propagator of the flame.

Material: Polyvinyl chloride.
Color: Gray Ral 7035.

Note: ARMET rigid PVC pipe is supplied with a union sleeve free of charge.

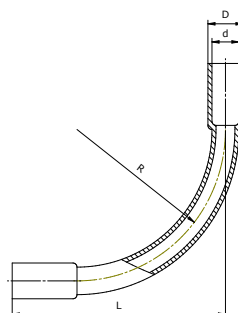


ARMET PVC 90° CURVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior Máx. D (mm)	Tolerance Ø Exterior (mm)	Ø Interior Máx. d (mm)	Length L (mm)	Radio R (mm)	Angle	Packaging (u)	Weight (kg/u)	EAN13 code
071CAMPV16	M16	21,8	+ 0 / - 0,3	16,5	90	80	90°	5	0,018	8435179009417
071CAMPV20	M20	26,4	+ 0 / - 0,3	20,5	105	85	90°	5	0,013	8435179009424
071CAMPV25	M25	32,2	+ 0 / - 0,4	25,5	158	95	90°	5	0,022	8435179009431
071CAMPV32	M32	39,3	+ 0 / - 0,4	32,6	201	185	90°	5	0,044	8435179009448
071CAMPV40	M40	49,5	+ 0 / - 0,4	40,7	245	215	90°	3	0,900	8435179009455
071CAMPV50	M50	61,2	+ 0 / - 0,4	50,8	300	275	90°	3	0,262	8435179009462
071CAMPV63	M63	74,3	+ 0 / - 0,4	63,9	372	320	90°	3	0,379	8435179009479

Material: Polyvinyl chloride.
Color: Gray Ral 7035.

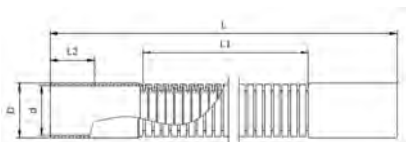


ARMET PVC FLEXIBLE CURVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior D (mm)	Ø Interior d (mm)	Length L (mm)	Length Zone flexible L1 (mm)	Length minimum entrance L2 (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
071CFMPV16	M16	17,2	16,5	300	225	16	10	0,018	8435179009561
071CFMPV20	M20	22,0	20,5	300	225	20	10	0,022	8435179009578
071CFMPV25	M25	27,0	25,5	310	300	25	5	0,040	8435179009585
071CFMPV32	M32	34,0	32,6	375	300	30	5	0,055	8435179009592
071CFMPV40	M40	42,0	40,7	390	300	32	3	0,082	8435179009608

Material: Polyvinyl chloride.
Color: Gray Ral 7035.

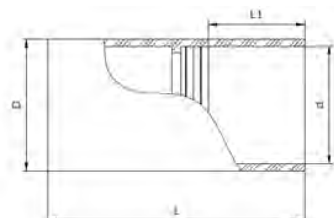


ARMET PVC SLEEVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior D (mm)	Ø Interior d (mm)	Length L (mm)	L1 (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
071MAMPV16	M16	19	16,5	39,6	16	19	0,004	8435179009349
071MAMPV20	M20	23	20,5	47,5	20	19	0,005	8435179009356
071MAMPV25	M25	28	25,5	54,7	25	19	0,006	8435179009363
071MAMPV32	M32	35	32,6	62,0	30	10	0,011	8435179009370
071MAMPV40	M40	43	40,7	65,8	32	10	0,025	8435179009387
071MAMPV50	M50	53	50,8	94,6	42	5	0,031	8435179009394
071MAMPV63	M63	66	63,9	99,0	50	5	0,037	8435179009400

Material: Polyvinyl chloride.
Color: Gray Ral 7035.

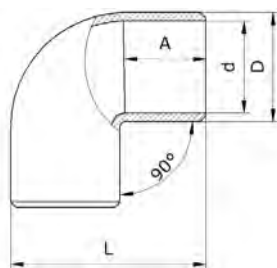


ARMET PVC ELBOW

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior D (mm)	Ø Interior d (mm)	Length L (mm)	A (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
071CRAPV16	M16	20,5	16,2	38,3	15,8	25	0,009	8435179009486
071CRAPV20	M20	25,5	20,2	47,5	19,1	25	0,016	8435179009493
071CRAPV25	M25	30,5	25,2	58,5	17,7	25	0,025	8435179009509
071CRAPV32	M32	38,0	32,2	66,0	18,6	15	0,032	8435179009516

Material: PVC.
Color: Gray Ral 7035.

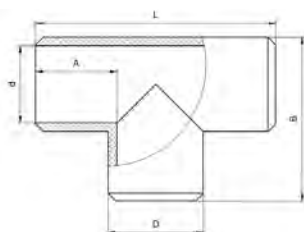


ARMET PVC TEE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior D (mm)	Ø Interior d (mm)	Length L (mm)	A (mm)	B (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
071TRAPV16	M16	20,5	16,2	56,3	16,2	37,2	25	0,011	8435179009523
071TRAPV20	M20	25,0	20,2	62,5	19,8	42,5	25	0,016	8435179009530
071TRAPV25	M25	31,0	25,2	80,5	17,8	55,8	25	0,034	8435179009547
071TRAPV32	M32	37,0	32,2	82,0	21,1	58,5	15	0,085	8435179009554

Material: PVC.
Color: Gray Ral 7035.



LH rigid tube system

Same characteristics as the PVC tube, slightly improving the mechanical resistance and manufactured with Halogen-Free materials. Drastically reduces the generation of harmful smoke in the event of a fire.



ARMET LH RIGID TUBE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

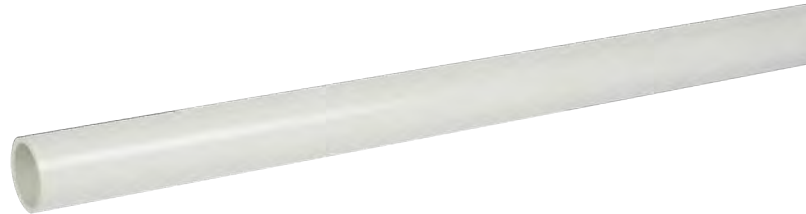
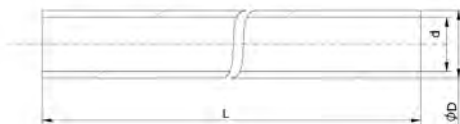
Reference	Ø Exterior D (mm)	Tolerance Ø Exterior (mm)	Ø Interior Min. d (mm)	Length L (mm)	Packaging (m)	Weight (kg/m)	EAN13 code
072TAMLH16	16	+ 0 / - 0,3	10,7	3000	57	0,106	8435179008373
072TAMLH20	20	+ 0 / - 0,3	14,1	3000	57	0,135	8435179008380
072TAMLH25	25	+ 0 / - 0,4	18,3	3000	57	0,193	8435179008397
072TAMLH32	32	+ 0 / - 0,4	25,3	3000	30	0,259	8435179008403
072TAMLH40	40	+ 0 / - 0,4	31,2	3000	30	0,345	8435179008410
072TAMLH50	50	+ 0 / - 0,4	39,6	3000	15	0,532	8435179008427
072TAMLH63	63	+ 0 / - 0,4	52,6	3000	15	0,626	8435179008434

TECHNICAL SPECIFICATIONS ACCORDING TO IEC 61386-21 STANDARD

Code: 442212540010. Use temperature: -5°C +90°C. Compressive strength: >1,250 N. Impact resistance: > 6J a -5°C. No flame propagating.

Material: Halogen-free thermoplastic polymer.
Color: Gray Ral 7035.

Note: ARMET Halogen Free Rigid Tubing is supplied with a union sleeve free of charge.

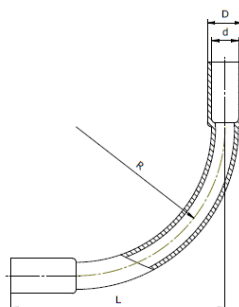


ARMET LH 90° CURVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior Máx. D (mm)	Tolerance Ø Exterior (mm)	Ø Interior Máx. d (mm)	Length L (mm)	Radio R (mm)	Angle	Packaging (u)	Weight (kg/u)	EAN13 code
073CAMLH16	M16	21,8	+ 0 / - 0,3	16,5	90	80	90°	5	0,018	8435179008519
073CAMLH20	M20	26,4	+ 0 / - 0,3	20,5	105	85	90°	5	0,013	8435179008526
073CAMLH25	M25	32,2	+ 0 / - 0,4	25,5	158	95	90°	5	0,023	8435179008533
073CAMLH32	M32	39,3	+ 0 / - 0,4	32,6	201	185	90°	5	0,043	8435179008540
073CAMLH40	M40	49,5	+ 0 / - 0,4	40,7	245	215	90°	3	0,141	8435179008557
073CAMLH50	M50	61,2	+ 0 / - 0,4	50,8	300	275	90°	3	0,262	8435179008564
073CAMLH63	M63	74,3	+ 0 / - 0,4	63,9	372	320	90°	3	0,379	8435179008571

Material: Halogen-free thermoplastic polymer.
Color: Gray Ral 7035.

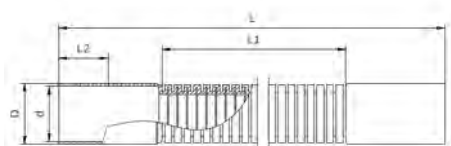


ARMET LH FLEXIBLE CURVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior D (mm)	Ø Interior d (mm)	Longitu L (mm)	Length Zone flexible L1 (mm)	L2 (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
073CFMLH16	M16	17,2	16,5	225	145	16	20	0,019	8435179008762
073CFMLH20	M20	22,0	20,5	260	165	20	10	0,022	8435179008779
073CFMLH25	M25	27,0	25,5	290	180	25	10	0,041	8435179008786
073CFMLH32	M32	34,0	32,6	310	185	30	5	0,055	8435179008793
073CFMLH40	M40	42,0	40,7	400	270	32	5	0,082	8435179008809

Material: Halogen-free thermoplastic polymer.
Color: Gray Ral 7035.

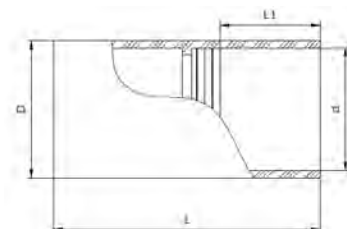


ARMET LH SLEEVE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Ø Exterior D (mm)	Ø Interior d (mm)	Length L (mm)	L1 (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
073MAMLH16	M16	19	16,5	39,6	16,0	19	0,003	8435179008441
073MAMLH20	M20	23	20,5	47,5	20,0	19	0,005	8435179008458
073MAMLH25	M25	28	25,5	54,7	25,0	19	0,006	8435179008465
073MAMLH32	M32	35	32,6	62,0	30,0	10	0,011	8435179008472
073MAMLH40	M40	43	40,7	65,8	32,0	10	0,024	8435179008489
073MAMLH50	M50	53	50,8	94,6	42,0	5	0,031	8435179008496
073MAMLH63	M63	66	63,9	99,0	50,0	5	0,035	8435179008502

Material: Halogen-free thermoplastic polymer.
Color: Gray Ral 7035.



Threading tools

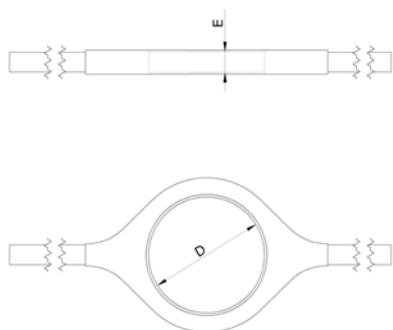
In many cases, the protection and guidance of cables through the use of threaded tubes requires the use of tube sections smaller than 3 meters, either to adapt the channeling to the different shapes of the installation surface or to access the different equipment or panels of the installation itself.

It is in this case that the use of the threading tools that we supply is especially useful, as they guarantee the creation of a threaded profile following the dimensional requirements described in the UNE EN regulations. ISO 60423 and making them, therefore, fully compatible with ARMENGOL accessories and other brands as long as they follow the dimensional regulations said.

BEARING HOLDER

Reference	Ø Nominal	Ø Exterior D (mm)	Thickness E (mm)	Packaging (u)	EAN13 code
030PCM1620	M16-20	45	14	1	8435179001725
030PCM0025	M25	55	16	1	8435179001671
030PCM0032	M32	65	18	1	8435179001688
030PCM0040	M40	75	20	1	8435179001695
030PCM0050	M50	90	22	1	8435179001701
030PCM0063	M63	105	22	1	8435179001718

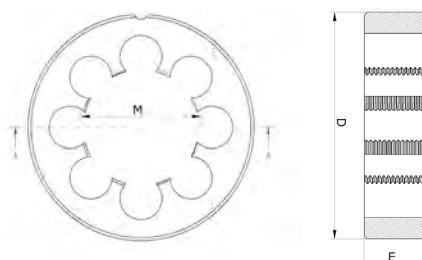
Material: Forged steel



BEARING

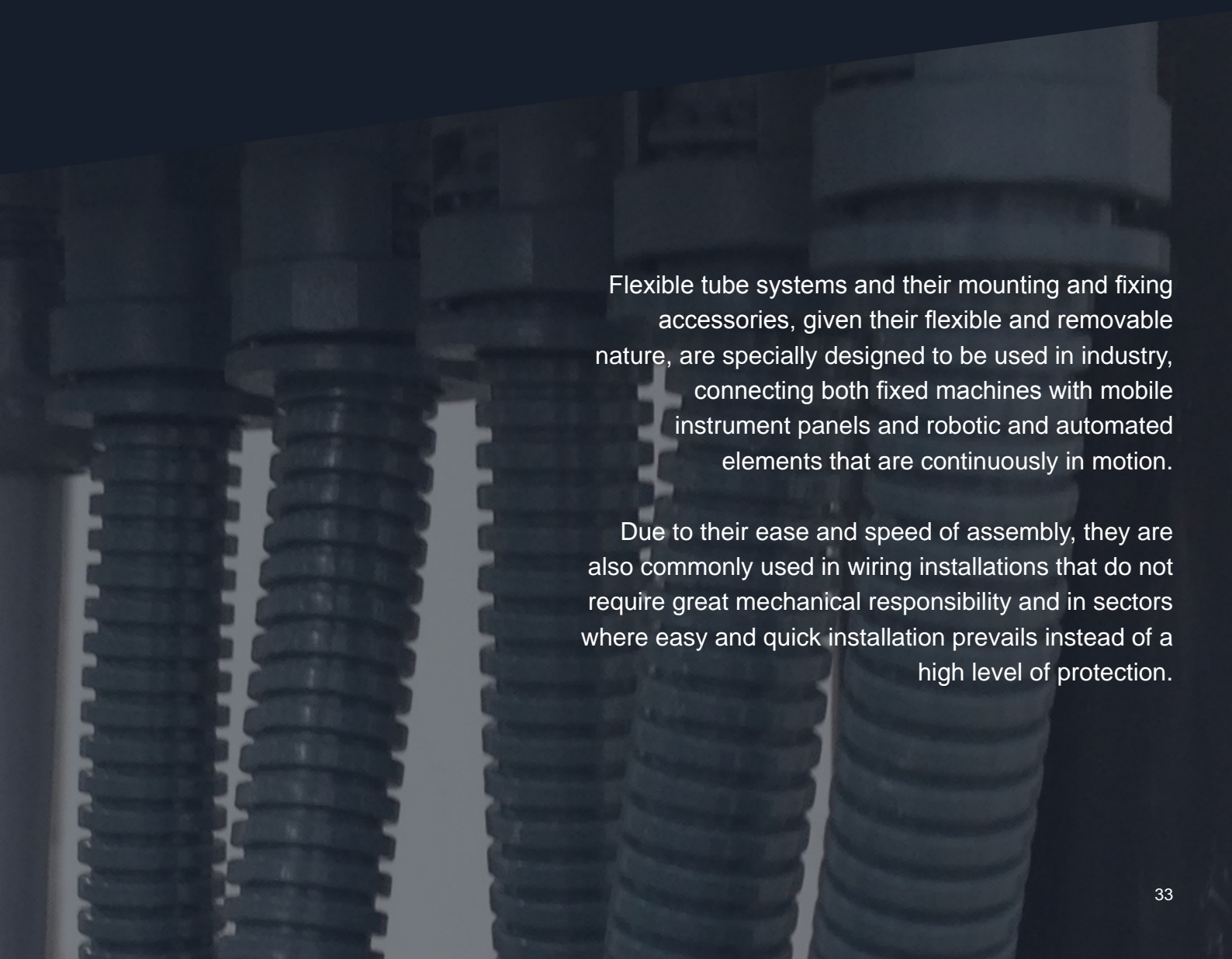
Reference	Ø Nominal	Ø Exterior D (mm)	Thickness E (mm)	Thread M	Packaging (u)	EAN13 code
030COJM016	M16	45	14	M16x1,5	1	8435179001466
030COJM020	M20	45	14	M20x1,5	1	8435179001473
030COJM025	M25	55	16	M25x1,5	1	8435179001480
030COJM032	M32	65	18	M32x1,5	1	8435179001497
030COJM040	M40	75	20	M40x1,5	1	8435179001503
030COJM050	M50	90	22	M50x1,5	1	8435179001510
030COJM063	M63	105	22	M63x1,5	1	8435179001527

Material: HSS steel.



Flexible tube system

Polyamide 6 flexible tube system

A close-up photograph of several parallel flexible tubes, likely made of polyamide 6, with their respective connectors. The tubes are arranged in a row, and the image is slightly blurred, emphasizing the texture and flexibility of the material.

Flexible tube systems and their mounting and fixing accessories, given their flexible and removable nature, are specially designed to be used in industry, connecting both fixed machines with mobile instrument panels and robotic and automated elements that are continuously in motion.

Due to their ease and speed of assembly, they are also commonly used in wiring installations that do not require great mechanical responsibility and in sectors where easy and quick installation prevails instead of a high level of protection.

Polyamide 6 flexible tube system

It is made of UV-resistant materials, can serve in a wide range of temperatures, and has a good degree of protection against the penetration of external agents.

The flammability of the tubes is classified at different levels, according to the UL 94 standard. The following table defines the combustion characteristics according to graduation.

TABLE: FLAMMABILITY RESISTANCE ACCORDING TO UL 94 STANDARD

Graduation according to UL 94 standard	Graduation definition
HB	Slow combustion in a horizontal sample.
V2	Combustion stops within 30 seconds in a vertical sample; burning particle droplets are allowed.
V1	Combustion stops within 30 seconds in a vertical sample; drips of particles are permitted as long as they are not on fire.
V0	Combustion stops within 10 seconds in a vertical sample; drips of particles are allowed as long as they are not inflamed.
5VB	Combustion stops within 60 seconds in a vertical sample; drips are not allowed; the samples in the form of plaque may develop a hole.
5VA	Combustion stops within 60 seconds in a vertical sample; drips are not allowed; plaque samples may not develop a hole.



PA6 GRAY FLEXIBLE TUBE

Reference	Ø Nominal	d (mm)	D (mm)	Radio curvature (mm)	Packaging (m)	Weight (kg/m)	EAN13 code
090T1GDN07	DN 7	6,5	10,0	21	100	0,021	8435179012653
090T1GDN10	DN10	10,0	13,0	25	100	0,028	8435179012677
090T1GDN12	DN12	12,0	15,8	34	50	0,037	8435179012691
090T1GDN14	DN14	14,2	18,4	41	50	0,050	8435179012714
090T1GDN17	DN17	15,5	21,2	50	50	0,055	8435179012738
090T1GDN23	DN23	23,5	28,4	58	50	0,090	8435179012752
090T1GDN29	DN29	29,0	34,5	65	25	0,109	8435179012776
090T1GDN36	DN36	36,0	42,5	74	25	0,143	8435179012790
090T1GDN48	DN48	48,0	54,5	89	25	0,185	8435179012813

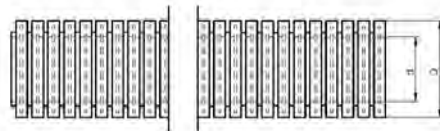
TECHNICAL SPECIFICATIONS ACCORDING TO IEC 61386-23 STANDARD

Code: 244340680212. Use temperature: -40°C + 120°C Compressive strength: >320N Impact resistance: 6J. No flame propagating.

Material: Polyamide PA6 V2, halogen free.

Color: Gray RAL 7031.

Self-extinguishing: according to UL94 V2.



PA6 BLACK FLEXIBLE TUBE

Reference	Ø Nominal	d (mm)	D (mm)	Radio curvature (mm)	Packaging (m)	Weight (kg/m)	EAN13 code
090T1NDN07	DN 7	6,5	10,0	21	100	0,021	8435179012660
090T1NDN10	DN10	10,0	13,0	25	100	0,028	8435179012684
090T1NDN12	DN12	12,0	15,8	34	50	0,037	8435179012707
090T1NDN14	DN14	14,2	18,4	41	50	0,050	8435179012721
090T1NDN17	DN17	15,5	21,2	50	50	0,055	8435179012745
090T1NDN23	DN23	23,5	28,4	58	50	0,090	8435179012769
090T1NDN29	DN29	29,0	34,5	65	25	0,109	8435179012783
090T1NDN36	DN36	36,0	42,5	74	25	0,143	8435179012806
090T1NDN48	DN48	48,0	54,5	89	25	0,185	8435179012820

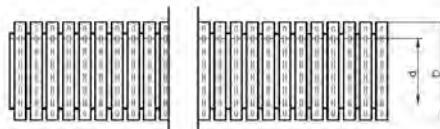
TECHNICAL SPECIFICATIONS ACCORDING TO IEC 61386-23 STANDARD

Code: 244340680212. Use temperature: -40°C + 120°C Compressive strength: >320N Impact resistance: 6J. No flame propagating.

Material: Polyamide PA6 V2, halogen free.


Color: Black RAL 7031.

Self-extinguishing: according to UL94 V2.



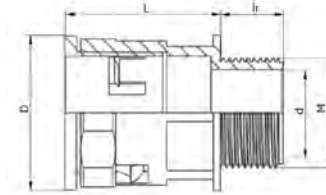
METRIC PA6 FITTING FOR GRAY FLEXIBLE TUBE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Thread M	Length L (mm)	Ir (mm)	Ø Exterior D (mm)	Ø Interior d (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
091RG07M12	DN 7	M12x1,5	26,0	11	18,7	6,9	100	15	0,005	8435179013018
091RG10M12	DN 10	M12x1,5	26,0	11	21,7	8,0	100	18	0,006	8435179013032
091RG10M16	DN 10	M16x1,5	26,0	11	21,7	10,8	100	18	0,007	8435179013056
091RG10M20	DN 10	M20x1,5	26,0	11	21,7	10,5	100	18	0,009	8435179013117
091RG12M16	DN 12	M16x1,5	26,5	11	26,0	10,9	100	20	0,007	8435179013070
091RG12M20	DN 12	M20x1,5	26,5	11	26,0	13,0	100	20	0,010	8435179013131
091RG14M16	DN 14	M16x1,5	31,0	11	28,0	10,3	100	23	0,008	8435179013094
091RG14M20	DN 14	M20x1,5	31,0	11	28,0	14,7	100	23	0,012	8435179013155
091RG17M20	DN 17	M20x1,5	33,0	13	32,0	15,2	100	27	0,012	8435179013179
091RG17M25	DN 17	M25x1,5	33,0	13	32,0	18,6	50	27	0,016	8435179013193
091RG23M25	DN 23	M25x1,5	39,0	16	39,5	18,7	50	34	0,045	8435179013216
091RG23M32	DN 23	M32x1,5	39,0	16	39,5	26,8	25	34	0,030	8435179013230
091RG29M32	DN 29	M32x1,5	43,0	16	46,5	25,7	25	40	0,033	8435179013254
091RG29M40	DN 29	M40x1,5	43,0	16	46,5	32,6	10	40	0,055	8435179013278
091RG36M40	DN36	M40x1,5	45,5	16	55,5	32,7	10	50	0,038	8435179013292
091RG36M50	DN36	M50x1,5	45,5	16	55,5	40,2	5	50	0,066	8435179013315
091RG48M50	DN48	M50x1,5	47,5	16	67,5	43,1	5	62	0,028	8435179013339
091RG48M63	DN48	M63x1,5	47,5	16	67,5	51,4	5	62	0,060	8435179013353


TECHNICAL SPECIFICATIONS ACCORDING TO IEC 60529 STANDARD
Protection degree IP 66, IP 68 by mounting an NBR O-ring at the end of the tube.

Material: Polyamide PA6 V2, halogen free.
Color: Gray Ral 7035.
Self-extinguishing: V2 according to UL94.
Use temperature: -40°C +120°C



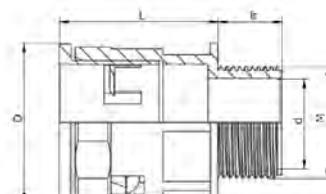
METRIC PA6 FITTING FOR BLACK FLEXIBLE TUBE

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Nominal	Thread M	Length L (mm)	Ir (mm)	Ø Exterior D (mm)	Ø Interior d (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
091RN07M12	DN 7	M12x1,5	26,0	11,0	18,7	6,9	100	15	0,005	8435179013025
091RN10M12	DN 10	M12x1,5	26,0	11,0	21,7	8,0	100	18	0,005	8435179013049
091RN10M16	DN 10	M16x1,5	26,0	11,0	21,7	10,8	100	18	0,007	8435179013063
091RN10M20	DN 10	M20x1,5	26,0	11,0	21,7	10,5	100	18	0,012	8435179013124
091RN12M16	DN 12	M16x1,5	26,5	11,0	26,0	10,9	100	20	0,007	8435179013087
091RN12M20	DN 12	M20x1,5	26,5	11,0	26,0	13,0	100	20	0,011	8435179013148
091RN14M16	DN 14	M16x1,5	31,0	11,0	28,0	10,3	100	23	0,008	8435179013100
091RN14M20	DN 14	M20x1,5	31,0	11,0	28,0	14,7	100	23	0,012	8435179013162
091RN17M20	DN 17	M20x1,5	33,0	13,0	32,0	15,2	100	27	0,012	8435179013186
091RN17M25	DN 17	M25x1,5	33,0	13,0	32,0	18,6	50	27	0,016	8435179013209
091RN23M25	DN 23	M25x1,5	39,0	16,0	39,5	18,7	50	34	0,018	8435179013223
091RN23M32	DN 23	M32x1,5	39,0	16,0	39,5	26,8	25	34	0,030	8435179013247
091RN29M32	DN 29	M32x1,5	43,0	16,0	46,5	25,7	25	40	0,035	8435179013261
091RN29M40	DN 29	M40x1,5	43,0	16,0	46,5	32,6	10	40	0,055	8435179013285
091RN36M40	DN36	M40x1,5	45,5	16,0	55,5	32,7	10	50	0,055	8435179013308
091RN36M50	DN36	M50x1,5	45,5	16,0	55,5	40,2	5	50	0,066	8435179013322
091RN48M50	DN48	M50x1,5	47,5	16,0	67,5	43,1	5	62	0,068	8435179013346
091RN48M63	DN48	M63x1,5	47,5	16,0	67,5	51,4	5	62	0,075	8435179013360

TECHNICAL SPECIFICATIONS ACCORDING TO IEC 60529 STANDARD
Protection degree IP 66, IP 68 by mounting an NBR O-ring at the end of the tube.

Material: Polyamide PA6 V2, halogen free.
Color: Black RAL 9005.
Self-extinguishing: V2 according to UL94.
Use temperature: -40°C +120°C



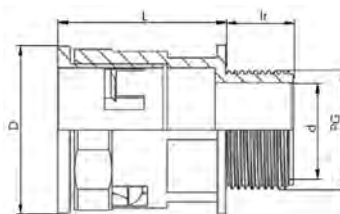
PA6 PG FITTING FOR GRAY FLEXIBLE TUBE

DIMENSIONS ACCORDING TO DIN 40430 STANDARD

Reference	Ø Nominal	Thread PG	Length L (mm)	lr (mm)	Ø Exterior D (mm)	Ø Interior d (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
091RG07P07	DN 7	PG7	26,0	11	18,7	6,9	100	15	0,005	8435179012837
091RG10P09	DN 10	PG9	26,0	11	21,7	10,3	100	18	0,007	8435179012851
091RG12P11	DN 12	PG11	26,5	11	26,0	13,3	100	20	0,009	8435179012875
091RG14P13	DN 14	PG13	31,0	11	28,0	15,3	100	23	0,012	8435179012899
091RG17P16	DN 17	PG16	33,0	13	32,0	16,6	100	27	0,012	8435179012912
091RG23P21	DN 23	PG21	39,0	16	39,5	22,3	50	34	0,021	8435179012936
091RG29P29	DN 29	PG29	43,0	16	46,5	31,7	25	40	0,035	8435179012950
091RG36P36	DN 36	PG36	45,5	16	55,5	40,5	10	50	0,054	8435179012974
091RG48P48	DN 48	PG48	47,5	16	67,5	51,7	5	62	0,071	8435179012998


TECHNICAL SPECIFICATIONS ACCORDING TO IEC 60529 STANDARD
Protection degree IP 66, IP 68 by mounting an NBR O-ring at the end of the tube.

Material: Polyamide PA6 V2, halogen free.
Color: Gray RAL 7031.
Self-extinguishing: V2 according to UL94.
Use temperature: -40°C +120°C



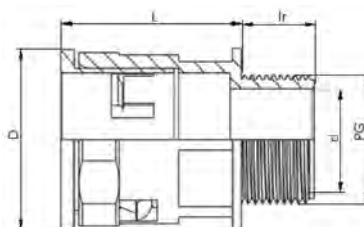
PA6 PG FITTING FOR BLACK FLEXIBLE TUBE

DIMENSIONS ACCORDING TO DIN 40430 STANDARD

Reference	Ø Nominal	Thread PG	Length L (mm)	lr (mm)	Ø Exterior D (mm)	Ø Interior d (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
091RN07P07	DN 7	PG7	26,0	11	18,7	6,9	100	15	0,005	8435179012844
091RN10P09	DN 10	PG9	26,0	11	21,7	10,3	100	18	0,007	8435179012868
091RN12P11	DN 12	PG11	26,5	11	26,0	13,3	100	20	0,009	8435179012882
091RN14P13	DN 14	PG13	31,0	11	28,0	15,3	100	23	0,012	8435179012905
091RN17P16	DN 17	PG16	33,0	13	32,0	16,6	100	27	0,013	8435179012929
091RN23P21	DN 23	PG21	39,0	16	39,5	22,3	50	34	0,024	8435179012943
091RN29P29	DN 29	PG29	43,0	16	46,5	31,7	25	40	0,035	8435179012967
091RN36P36	DN 36	PG36	45,5	16	55,5	40,5	10	50	0,054	8435179012981
091RN48P48	DN 48	PG48	47,5	16	67,5	51,7	5	62	0,071	8435179013001

TECHNICAL SPECIFICATIONS ACCORDING TO IEC 60529 STANDARD
Protection degree IP 66, IP 68 by mounting an NBR O-ring at the end of the tube.

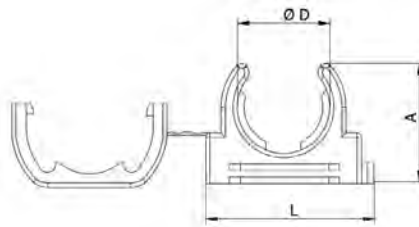
Material: Polyamide PA6 V2, halogen free.
Color: Black RAL 9005.
Self-extinguishing: V2 according to UL94.
Use temperature: -40°C +120°C



PA6 CLIP FOR GRAY FLEXIBLE TUBE

Reference	Ø Nominal Tube	Length L (mm)	Ø Exterior D (mm)	A (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
091C1GDN07	DN 7	24,5	10,5	15,0	100	0,002	8435179013377
091C1GDN10	DN 10	24,5	13,5	15,0	100	0,002	8435179013391
091C1GDN12	DN 12	30,0	15,8	21,0	100	0,003	8435179013414
091C1GDN14	DN 14	34,0	18,5	24,0	100	0,003	8435179013438
091C1GDN17	DN 17	39,0	21,5	28,0	100	0,006	8435179013452
091C1GDN23	DN 23	51,0	28,5	37,0	50	0,008	8435179013476
091C1GDN29	DN 29	62,0	35,5	45,5	25	0,013	8435179013490
091C1GDN36	DN 36	74,5	42,5	55,5	10	0,019	8435179013513
091C1GDN48	DN 48	95,5	55,5	71,0	5	0,028	8435179013537

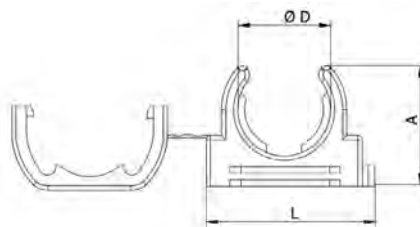
Material: Polyamide PA6 V2, halogen free.
Color: Gray RAL 7031.
Self-extinguishing: V2 according to UL94.
Use temperature: -40°C +120°C.



PA6 CLIP FOR BLACK FLEXIBLE TUBE

Reference	Ø Nominal Tube	Length L (mm)	Ø Exterior D (mm)	A (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
091C1NDN07	DN 7	24,5	10,5	15,0	100	0,002	8435179013384
091C1NDN10	DN 10	24,5	13,5	15,0	100	0,002	8435179013407
091C1NDN12	DN 12	30,0	15,8	21,0	100	0,003	8435179013421
091C1NDN14	DN 14	34,0	18,5	24,0	100	0,003	8435179013445
091C1NDN17	DN 17	39,0	21,5	28,0	100	0,006	8435179013469
091C1NDN23	DN 23	51,0	28,5	37,0	50	0,008	8435179013483
091C1NDN29	DN 29	62,0	35,5	45,5	25	0,013	8435179013506
091C1NDN36	DN 36	74,5	42,5	55,5	10	0,019	8435179013520
091C1NDN48	DN 48	95,5	55,5	71,0	5	0,025	8435179013544


Material: Polyamide PA6 V2, halogen free.
Color: Black RAL 9005.
Self-extinguishing: V2 according to UL94.
Use temperature: -40°C +120°C.



Cable gland

Polyamide cable gland

Nickel-plated brass cable gland



Our range of cable glands and their mounting and fixing accessories allow cable management systems to access control and branch points, ensuring a level of protection and stability quality up to IP68 according to IEC 60529 standard. Which ensures correct maintenance of the wiring systems against external influences. All our range of cable glands are in line with the requirements of the UNE-EN 62444 cable glands for electrical installations.

They stand out for their ease of assembly and installation and for being widely compatible with the vast majority of junction boxes, control units and market distribution elements.

Polyamide cable gland

The materials they are made of makes them resistant to UV light, they can serve in a wide range of temperatures and present a good degree of protection against the penetration of external agents.



Tertiary/service




Industrial



Machinery

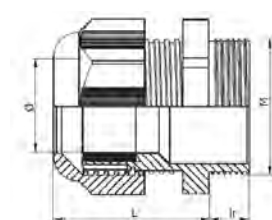
METRIC PA6 LIGHT GRAY CABLE GLAND IP - 68

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Cables min-max (mm)	Thread M	Length L (mm)	Ir (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
100P1LM120	3,0 – 6,5	M12x1,5	24	8	100	15	0,004	8435179011328
100P1LM160	4,0 – 8,0	M16x1,5	28	8	100	19	0,006	8435179011359
100P1LM161	5,0 – 10,0	M16x1,5	29	10	100	22	0,008	8435179011380
100P1LM200	6,0 – 12,0	M20x1,5	29	10	100	24	0,010	8435179011410
100P1LM201	10,0 – 14,0	M20x1,5	33	10	100	27	0,013	8435179011441
100P1LM250	13,0 – 18,0	M25x1,5	38	10	50	33	0,021	8435179011472
100P1LM320	18,0 – 25,0	M32x1,5	41	10	25	42	0,036	8435179011502
100P1LM400	22,0 – 32,0	M40x1,5	51	10	10	53	0,066	8435179011533
100P1LM500	30,0 – 38,0	M50x1,5	53	18	5	60	0,088	8435179011564
100P1LM630	34,0 – 44,0	M63x1,5	55	18	5	70	0,098	8435179011595


TECHNICAL SPECIFICATIONS ACCORDING TO IEC 60529 STANDARD
Degree of protection IP 68.

Material: Polyamide PA6 V2, halogen free.
Board Material: POS.
Color: Light Gray RAL 7035.
Self-extinguishing: V2 according to UL94.
Use temperature: -20°C +100°C



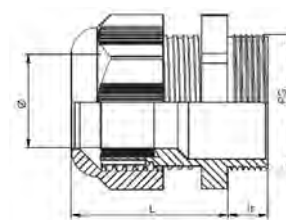
PA6 PG LIGHT GRAY CABLE GLAND IP - 68

DIMENSIONS ACCORDING TO DIN 40430 STANDARD

Reference	Ø Cables min-max (mm)	Thread PG	Length L (mm)	Ir (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
100P1LP070	3,0 – 6,5	PG 7	24	8	100	15	0,004	8435179011021
100P1LP090	4,0 – 8,0	PG 9	28	8	100	19	0,006	8435179011052
100P1LP110	5,0 – 10,0	PG 11	29	8	100	22	0,008	8435179011083
100P1LP130	6,0 – 12,0	PG 13,5	29	9	100	24	0,009	8435179011113
100P1LP160	10,0 – 14,0	PG 16	33	9	100	27	0,012	8435179011144
100P1LP210	13,0 – 18,0	PG 21	38	11	50	33	0,020	8435179011175
100P1LP290	18,0 – 25,0	PG 29	41	11	25	42	0,033	8435179011205
100P1LP360	22,0 – 32,0	PG 36	51	13	10	53	0,066	8435179011236
100P1LP420	30,0 – 38,0	PG 42	53	13	5	60	0,078	8435179011267
100P1LP480	34,0 – 44,0	PG 48	55	14	5	65	0,089	8435179011298


TECHNICAL SPECIFICATIONS ACCORDING TO IEC 60529 STANDARD
Degree of protection IP 68.

Material: Polyamide PA6 V2, halogen free.
Board Material: POS.
Color: Light Gray RAL 7035.
Self-extinguishing: V2 according to UL94.
Use temperature: -20°C +100°C



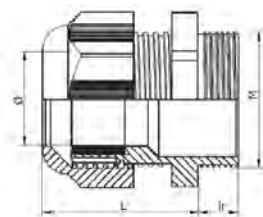
METRIC PA6 DARK GRAY CABLE GLAND IP - 68

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Cables min-max (mm)	Thread M	Length L (mm)	lr (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
100P1GM120	3,0 – 6,5	M12x1,5	24	8	100	15	0,004	8435179011311
100P1GM160	4,0 – 8,0	M16x1,5	28	8	100	19	0,006	8435179011342
100P1GM161	5,0 – 10,0	M16x1,5	29	10	100	22	0,008	8435179011373
100P1GM200	6,0 – 12,0	M20x1,5	29	10	100	24	0,010	8435179011403
100P1GM201	10,0 – 14,0	M20x1,5	33	10	100	27	0,013	8435179011434
100P1GM250	13,0 – 18,0	M25x1,5	38	10	50	33	0,021	8435179011465
100P1GM320	18,0 – 25,0	M32x1,5	41	10	25	42	0,036	8435179011496
100P1GM400	22,0 – 32,0	M40x1,5	51	10	10	53	0,066	8435179011526
100P1GM500	30,0 – 38,0	M50x1,5	53	18	5	60	0,088	8435179011557
100P1GM630	34,0 – 44,0	M63x1,5	55	18	5	70	0,098	8435179011588


TECHNICAL SPECIFICATIONS ACCORDING TO IEC 60529 STANDARD
Degree of protection IP 68.

Material: Polyamide PA6 V2, halogen free.
Board Material: POS.
Color: Dark Gray RAL 7001.
Self-extinguishing: V2 according to UL94.
Use temperature: -20°C +100°C



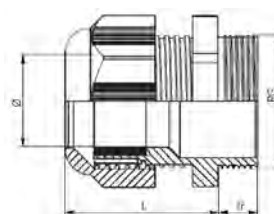
PG PA6 DARK GRAY CABLE GLAND IP - 68

DIMENSIONS ACCORDING TO DIN 40430 STANDARD

Reference	Ø Cables min-max (mm)	Thread PG	Length L (mm)	lr (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
100P1GP070	3,0 – 6,5	PG 7	24	8	100	15	0,007	8435179011014
100P1GP090	4,0 – 8,0	PG 9	28	8	100	19	0,006	8435179011045
100P1GP110	5,0 – 10,0	PG 11	29	8	100	22	0,008	8435179011076
100P1GP130	6,0 – 12,0	PG 13,5	29	9	100	24	0,009	8435179011106
100P1GP160	10,0 – 14,0	PG 16	33	9	100	27	0,012	8435179011137
100P1GP210	13,0 – 18,0	PG 21	38	11	50	33	0,020	8435179011168
100P1GP290	18,0 – 25,0	PG 29	41	11	25	42	0,033	8435179011199
100P1GP360	22,0 – 32,0	PG 36	51	13	10	53	0,066	8435179011229
100P1GP420	30,0 – 38,0	PG 42	53	13	5	60	0,078	8435179011250
100P1GP480	34,0 – 44,0	PG 48	55	14	5	65	0,089	8435179011281


TECHNICAL SPECIFICATIONS ACCORDING TO IEC 60529 STANDARD
Degree of protection IP 68.

Material: Polyamide PA6 V2, halogen free.
Board Material: POS.
Color: Dark Gray RAL 7001.
Self-extinguishing: V2 according to UL94.
Use temperature: -20°C +100°C



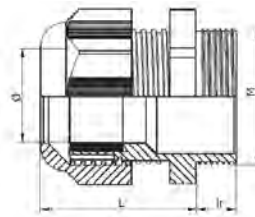
METRIC PA6 BLACK CABLE GLAND IP - 68

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Cables min-max (mm)	Thread M	Length L (mm)	lr (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
100P1NM120	3,0 – 6,5	M12x1,5	24	8	100	15	0,004	8435179011335
100P1NM160	4,0 – 8,0	M16x1,5	28	8	100	19	0,006	8435179011366
100P1NM161	5,0 – 10,0	M16x1,5	29	10	100	22	0,008	8435179011397
100P1NM200	6,0 – 12,0	M20x1,5	29	10	100	24	0,020	8435179011427
100P1NM201	10,0 – 14,0	M20x1,5	33	10	100	27	0,013	8435179011458
100P1NM250	13,0 – 18,0	M25x1,5	38	10	50	33	0,021	8435179011489
100P1NM320	18,0 – 25,0	M32x1,5	41	10	25	42	0,036	8435179011519
100P1NM400	22,0 – 32,0	M40x1,5	51	10	10	53	0,066	8435179011540
100P1NM500	30,0 – 38,0	M50x1,5	53	18	5	60	0,088	8435179011571
100P1NM630	34,0 – 44,0	M63x1,5	55	18	5	70	0,098	8435179011601


TECHNICAL SPECIFICATIONS ACCORDING TO IEC 60529 STANDARD
Degree of protection IP 68.

Material: Polyamide PA6 V2, halogen free.
Board Material: POS.
Color: Black RAL 9005.
Self-extinguishing: V2 according to UL94.
Use temperature: -20°C +100°C



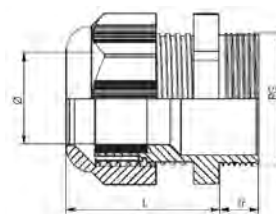
PG PA6 BLACK CABLE GLAND IP - 68

DIMENSIONS ACCORDING TO DIN 40430 STANDARD

Reference	Ø Cables min-max (mm)	Thread PG	Length L (mm)	lr (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
100P1NP070	3,0 – 6,5	PG 7	24	8	100	15	0,007	8435179011038
100P1NP090	4,0 – 8,0	PG 9	28	8	100	19	0,006	8435179011069
100P1NP110	5,0 – 10,0	PG 11	29	8	100	22	0,008	8435179011090
100P1NP130	6,0 – 12,0	PG 13,5	29	9	100	24	0,009	8435179011120
100P1NP160	10,0 – 14,0	PG 16	33	9	100	27	0,012	8435179011151
100P1NP210	13,0 – 18,0	PG 21	38	11	50	33	0,020	8435179011182
100P1NP290	18,0 – 25,0	PG 29	41	11	25	42	0,033	8435179011212
100P1NP360	22,0 – 32,0	PG 36	51	13	10	53	0,066	8435179011243
100P1NP420	30,0 – 38,0	PG 42	53	13	5	60	0,078	8435179011274
100P1NP480	34,0 – 44,0	PG 48	55	14	5	65	0,089	8435179011304


TECHNICAL SPECIFICATIONS ACCORDING TO IEC 60529 STANDARD
Degree of protection IP 68.

Material: Polyamide PA6 V2, halogen free.
Board Material: POS.
Color: Black RAL 9005.
Self-extinguishing: V2 according to UL94.
Use temperature: -20°C +100°C

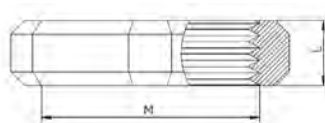


METRIC PA6 LIGHT GRAY NUT

DIMENSIONS ACCORDING TO IEC 60423 STANDARD


Reference	Thread M	L (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
100T1LM120	M12x1,5	5	100	18	0,001	8435179012424
100T1LM160	M16x1,5	5	100	22	0,001	8435179012455
100T1LM200	M20x1,5	6	100	26	0,002	8435179012486
100T1LM250	M25x1,5	6	50	32	0,003	8435179012516
100T1LM320	M32x1,5	7	25	41	0,006	8435179012547
100T1LM400	M40x1,5	7	10	50	0,011	8435179012578
100T1LM500	M50x1,5	8	5	60	0,013	8435179012608
100T1LM630	M63x1,5	8	5	75	0,018	8435179012639

Material: Polyamide PA6 V2 + 30% GF halogen-free.
Color: Light Gray RAL 7035.
Self-extinguishing: V2 according to UL94.
Use temperature: -20°C +100°C

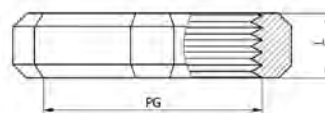


PG PA6 LIGHT GRAY NUT

DIMENSIONS ACCORDING TO DIN 40430 STANDARD


Reference	Thread PG	L (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
100T1LP070	PG 7	5	100	19	0,001	8435179012127
100T1LP090	PG 9	5	100	22	0,001	8435179012158
100T1LP110	PG 11	5	100	24	0,002	8435179012189
100T1LP130	PG 13,5	6	100	27	0,002	8435179012219
100T1LP160	PG 16	6	100	30	0,003	8435179012240
100T1LP210	PG 21	7	50	36	0,005	8435179012271
100T1LP290	PG 29	7	25	46	0,006	8435179012301
100T1LP360	PG 36	8	10	60	0,014	8435179012332
100T1LP420	PG 42	8	5	65	0,015	8435179012363
100T1LP480	PG 48	8	5	70	0,018	8435179012394

Material: Polyamide PA6 V2 + 30% GF halogen-free.
Color: Light Gray RAL 7035.
Self-extinguishing: V2 according to UL94.
Use temperature: -20°C +100°C

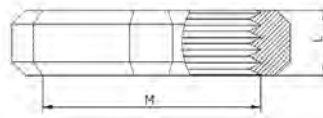


METRIC PA6 DARK GRAY NUT

DIMENSIONS ACCORDING TO IEC 60423 STANDARD


Reference	Thread M	L (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
100T1GM120	M12x1,5	5	100	18	0,001	8435179012417
100T1GM160	M16x1,5	5	100	22	0,001	8435179012448
100T1GM200	M20x1,5	6	100	26	0,002	8435179012479
100T1GM250	M25x1,5	6	50	32	0,003	8435179012509
100T1GM320	M32x1,5	7	25	41	0,006	8435179012530
100T1GM400	M40x1,5	7	10	50	0,011	8435179012561
100T1GM500	M50x1,5	8	5	60	0,013	8435179012592
100T1GM630	M63x1,5	8	5	75	0,018	8435179012622

Material: Polyamide PA6 V2 + 30% GF halogen-free.
Color: Dark Gray RAL 7001.
Self-extinguishing: V2 according to UL94.
Use temperature: -20°C +100°C

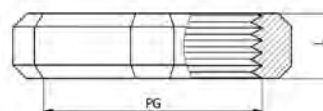


PG PA6 DARK GRAY NUT

DIMENSIONS ACCORDING TO DIN 40430 STANDARD


Reference	Thread PG	L (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
100T1GP070	PG 7	5	100	19	0,001	8435179012110
100T1GP090	PG 9	5	100	22	0,001	8435179012141
100T1GP110	PG 11	5	100	24	0,002	8435179012172
100T1GP130	PG 13,5	6	100	27	0,002	8435179012202
100T1GP160	PG 16	6	100	30	0,003	8435179012233
100T1GP210	PG 21	7	50	36	0,005	8435179012264
100T1GP290	PG 29	7	25	46	0,006	8435179012295
100T1GP360	PG 36	8	10	60	0,014	8435179012325
100T1GP420	PG 42	8	5	65	0,015	8435179012356
100T1GP480	PG 48	8	5	70	0,018	8435179012387

Material: Polyamide PA6 V2, halogen free.
Color: Dark Gray RAL 7001.
Self-extinguishing: V0 according to UL94.
Use temperature: -20°C +100°C.

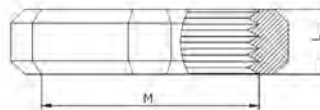


METRIC PA6 BLACK NUT

DIMENSIONS ACCORDING TO IEC 60423 STANDARD


Reference	Thread M	L (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
100T1NM120	M12x1,5	5	100	18	0,001	8435179012431
100T1NM160	M16x1,5	5	100	22	0,001	8435179012462
100T1NM200	M20x1,5	6	100	26	0,002	8435179012493
100T1NM250	M25x1,5	6	50	32	0,003	8435179012523
100T1NM320	M32x1,5	7	25	41	0,006	8435179012554
100T1NM400	M40x1,5	7	10	50	0,011	8435179012585
100T1NM500	M50x1,5	8	5	60	0,013	8435179012615
100T1NM630	M63x1,5	8	5	75	0,018	8435179012646

Material: Polyamide PA6 V2 + 30% GF halogen-free.
Color: Dark Black RAL 9005.
Self-extinguishing: V2 according to UL94.
Use temperature: -20°C +100°C

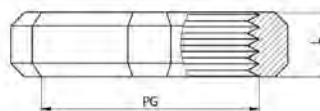


PG PA6 BLACK NUT

DIMENSIONS ACCORDING TO DIN 40430 STANDARD

Reference	Thread PG	L (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
100T1NP070	PG 7	5	100	19	0,001	8435179012134
100T1NP090	PG 9	5	100	22	0,001	8435179012165
100T1NP110	PG 11	5	100	24	0,002	8435179012196
100T1NP130	PG 13,5	6	100	27	0,002	8435179012226
100T1NP160	PG 16	6	100	30	0,003	8435179012257
100T1NP210	PG 21	7	50	36	0,005	8435179012288
100T1NP290	PG 29	7	25	46	0,006	8435179012318
100T1NP360	PG 36	8	10	60	0,014	8435179012349
100T1NP420	PG 42	8	5	65	0,015	8435179012370
100T1NP480	PG48	8	5	70	0,018	8435179012400

Material: Polyamide PA6 V2, halogen free.
Color: Black RAL 9005.
Self-extinguishing: V2 according to UL94.
Use temperature: -20°C +100°C



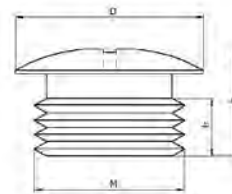
METRIC PA6 LIGHT GRAY ROUND PLUG

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Thread M	L (mm)	lr (mm)	D (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
100O1LM120	M12x1,5	8,5	6	15	100	0,001	8435179011878
100O1LM160	M16x1,5	10,0	7	20	100	0,001	8435179011885
100O1LM200	M20x1,5	10,0	7	24	100	0,002	8435179011892
100O1LM250	M25x1,5	14,0	10	30	50	0,004	8435179011908
100O1LM320	M32x1,5	14,0	10	37	25	0,005	8435179011915
100O1LM400	M40x1,5	15,0	10	48	10	0,009	8435179011922

TECHNICAL SPECIFICATIONS ACCORDING TO IEC 60529 STANDARD
Degree of protection IP 54, IP 68 mounting an NBR O-ring.

Material: Polyamide PA6 V2, halogen free.
Color: Light Gray RAL 7035.
Self-extinguishing: V2 according to UL94.
Use temperature: -20°C +100°C



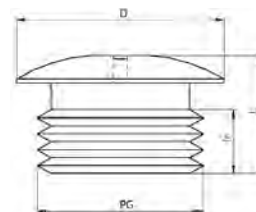
PG PA6 LIGHT GRAY ROUND PLUG

DIMENSIONS ACCORDING TO DIN 40430 STANDARD

Reference	Thread PG	L (mm)	lr (mm)	D (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
100O1LP070	PG 7	8,0	6	15	100	0,001	8435179011793
100O1LP090	PG 9	8,2	6	19	100	0,001	8435179011809
100O1LP110	PG 11	8,5	6	22	100	0,001	8435179011816
100O1LP130	PG 13,5	8,5	6	25	100	0,001	8435179011823
100O1LP160	PG 16	8,5	6	27	100	0,002	8435179011830
100O1LP210	PG 21	12,0	8	33	50	0,004	8435179011847
100O1LP290	PG 29	11,3	8	44	25	0,005	8435179011854
100O1LP360	PG 36	11,3	10	55	10	0,009	8435179011861

TECHNICAL SPECIFICATIONS ACCORDING TO IEC 60529 STANDARD
Degree of protection IP 54, IP 68 mounting an NBR O-ring.

Material: Polyamide PA6 V2, halogen free.
Color: Light Gray RAL 7035.
Self-extinguishing: V2 according to UL94.
Use temperature: -20°C +100°C



Nickel plated brass cable gland

Our range of metal cable glands have the same characteristics as their polyamide counterparts with the addition of considerably increasing the mechanical resistance of the assembly, maintaining good resistance to Corrosion, which is common in industrial environments.

The bright nickel-plated finish allows them to be used in accordance with stainless steel or electrogalvanized steel installations, without any existing galvanic torque corrosion problems.



Tertiary/service



Industrial



Machinery

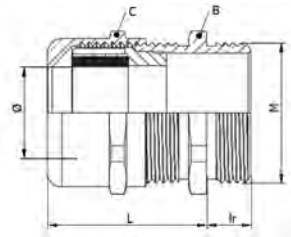
METRIC NP CABLE GLAND IP- 68

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Ø Cables min-max (mm)	Thread M	Length L (mm)	lr (mm)	Packaging (u)	B	C	Weight (kg/u)	EAN13 code
101P1GM120	3 – 6,5	M12x1,5	22,0	6	100	14	14	0,012	8435179011717
101P1GM160	4 – 8	M16x1,5	23,0	7	100	18	17	0,018	8435179011724
101P1GM200	6 – 12	M20x1,5	26,5	8	100	22	22	0,029	8435179011731
101P1GM250	10 – 14	M25x1,5	28,0	8	50	27	24	0,036	8435179011748
101P1GM320	13– 18	M32x1,5	31,5	9	25	34	30	0,067	8435179011755
101P1GM400	18 – 25	M40x1,5	38,0	9	10	43	40	0,139	8435179011762
101P1GM500	22 – 32	M50x1,5	43,0	9	5	55	50	0,231	8435179011779
101P1GM630	34 – 44	M63x1,5	48,0	14	5	68	64	0,414	8435179011786

TECHNICAL SPECIFICATIONS ACCORDING TO IEC 60529 STANDARD
Degree of protection IP 68.

Material: CuZn39Pb2 – Nickel Plated Brass.
Board Material: TPV.
Closing nozzle material: Polyamide PA6 V2.
Use temperature: -20°C +100°C



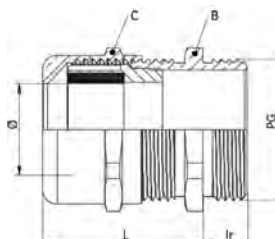
PG NP CABLE GLAND IP- 68

DIMENSIONS ACCORDING TO DIN 40430 STANDARD

Reference	Ø Cables min-max (mm)	Thread PG	Length L (mm)	lr (mm)	Packaging (u)	B	C	Weight (kg/u)	EAN13 code
101P1GP070	3 - 6,5	PG 7,0	22,0	6,0	100	14	14	0,012	8435179011618
101P1GP090	4 - 8	PG 9,0	23,0	6,0	100	17	17	0,017	8435179011625
101P1GP110	5 - 10	PG 11,0	24,5	6,0	100	20	20	0,023	8435179011632
101P1GP130	6 - 12	PG 13,5	26,5	6,5	100	22	22	0,030	8435179011649
101P1GP160	10 - 14	PG 16,0	28,0	6,5	100	24	24	0,032	8435179011656
101P1GP210	13 - 18	PG 21,0	31,5	7,0	50	30	30	0,055	8435179011663
101P1GP290	18 - 25	PG 29,0	38,0	8,0	25	40	40	0,116	8435179011670
101P1GP360	22 - 32	PG 36,0	43,0	10,0	10	50	50	0,198	8435179011687
101P1GP420	30 - 38	PG 42,0	47,0	12,0	5	57	57	0,232	8435179011694
101P1GP480	33 - 44	PG 48,0	48,0	14,0	5	64	64	0,345	8435179011700


TECHNICAL SPECIFICATIONS ACCORDING TO IEC 60529 STANDARD
Degree of protection IP 68.

Material: CuZn39Pb2 – Nickel Plated Brass.
Board Material: TPV.
Closing nozzle material: Polyamide PA6 V2.
Use temperature: -20°C +100°C

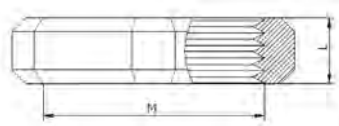


METRIC NP NUT

DIMENSIONS ACCORDING TO IEC 60423 STANDARD

Reference	Thread M	Length L (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
101T1GM120	M12x1,5	2,8	100	15	0,002	8435179012035
101T1GM160	M16x1,5	3,0	100	19	0,003	8435179012042
101T1GM200	M20x1,5	3,5	100	24	0,005	8435179012059
101T1GM250	M25x1,5	3,5	50	30	0,008	8435179012066
101T1GM320	M32x1,5	4,0	25	36	0,011	8435179012073
101T1GM400	M40x1,5	4,0	10	45	0,016	8435179012080
101T1GM500	M50x1,5	5,0	5	55	0,027	8435179012097
101T1GM630	M63x1,5	5,0	5	68	0,037	8435179012103

Material: CuZn39Pb2 – Nickel Plated Brass.
Use temperature: -20 +100°C.

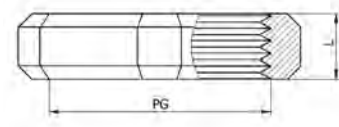


PG NP NUT

DIMENSIONS ACCORDING TO DIN 40430 STANDARD

Reference	Thread PG	Length L (mm)	Packaging (u)		Weight (kg/u)	EAN13 code
101T1GP070	PG 7,0	2,8	100	15	0,001	8435179011939
101T1GP090	PG 9,0	2,8	100	18	0,002	8435179011946
101T1GP110	PG 11,0	3,0	100	21	0,003	8435179011953
101T1GP130	PG 13,5	3,0	100	23	0,003	8435179011960
101T1GP160	PG 16,0	3,0	100	26	0,004	8435179011977
101T1GP210	PG 21,0	3,5	50	32	0,007	8435179011984
101T1GP290	PG 29,0	4,0	25	40	0,010	8435179011991
101T1GP360	PG 36,0	5,0	10	50	0,017	8435179012004
101T1GP420	PG 42,0	5,0	5	60	0,033	8435179012011
101T1GP480	PG48,0	5,5	5	64	0,036	8435179012028

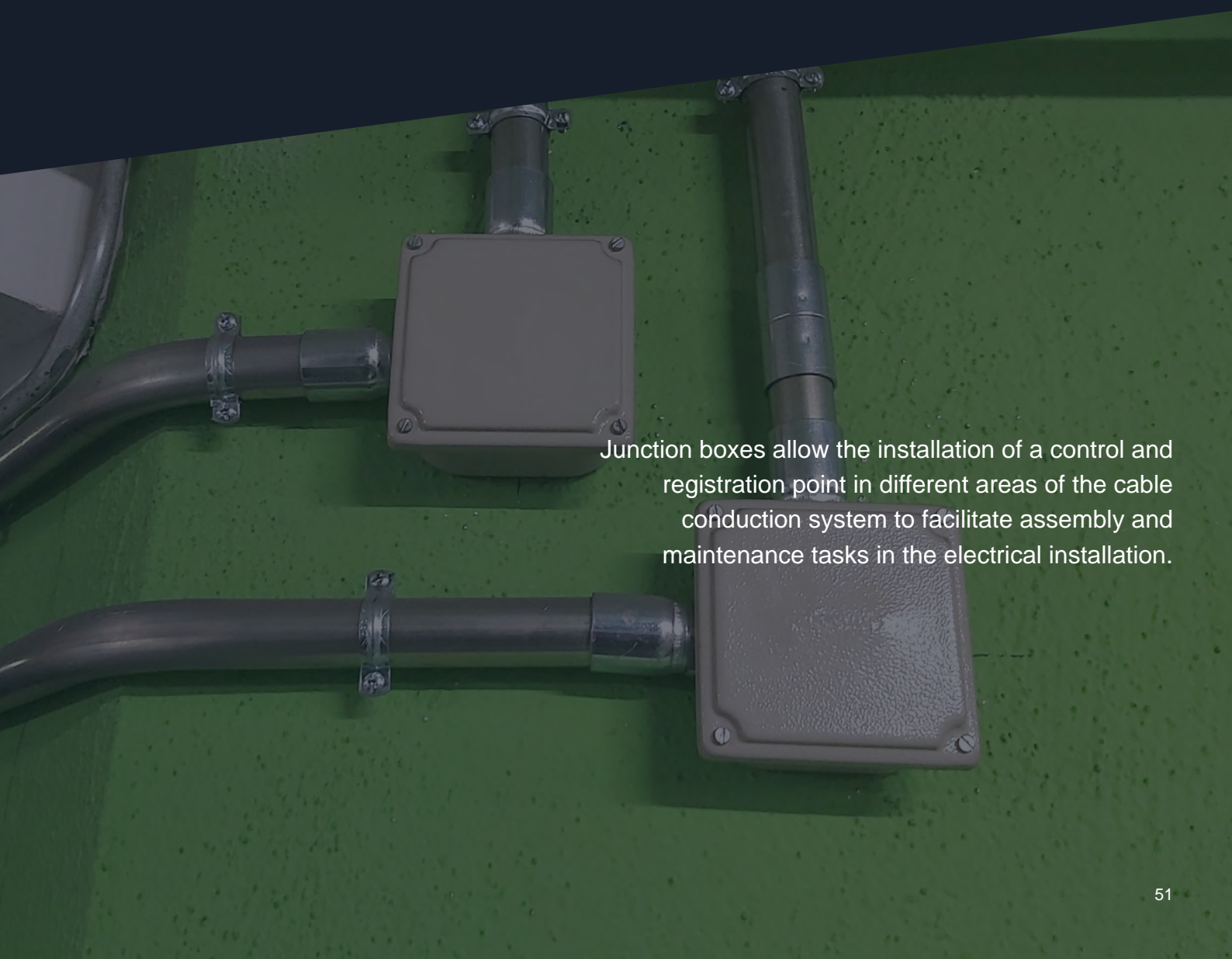
Material: CuZn39Pb2 – Nickel Plated Brass.
Use temperature: -20 +100°C.



Junction boxes

Textured metal junction boxes

Stainless metal junction boxes



Junction boxes allow the installation of a control and registration point in different areas of the cable conduction system to facilitate assembly and maintenance tasks in the electrical installation.

Metallic junction boxes

Textured metallic junction boxes

Boxes made of cold-stamped carbon steel sheet with an external coating with RAL 7032 epoxy paint and a textured surface finish.

Suitable for both outdoor installations and indoor installations with a moderate industrial environment. With a degree of protection

IP 54 according to IEC 60529 standard and impact resistance grade IK10 according to IEC 62262 standard and EN 60439-3.

Especially indicated when a high degree of protection against mechanical impacts is required.



Infrastructure



Tertiary/service



Machinery



Electric vehicle



Industrial



Energy

Stainless metallic junction boxes

Boxes made of AISI 304 – Wn stainless steel sheet. 1.4301 – X10CrNi1810 cold stamped with +BA (Bright) finish.

Suitable for both outdoor installations, even in saline environments, and indoor installations with an industrial atmosphere rigorous.

Especially suitable for assembly in the food industry. With a degree of protection IP 68 according to IEC 60529 standard and impact resistance grade IK10 according to IEC 62262 standard and EN 60439-3.



Operating room



Chemical sector



Energy nuclear



Marine



Industrial



Energy

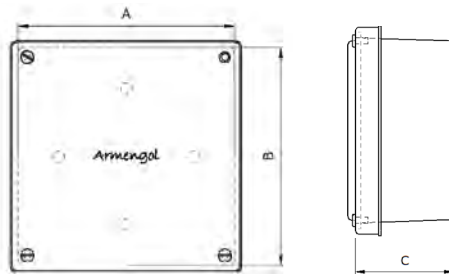
TEXTURED JUNCTION BOX

Reference	A (mm)	B (mm)	C (mm)	Packaging (u)	Weight (kg/u)	EAN13 code
040CDTM254	90	90	47	20	0,289	8435179001817
040CDTM255	110	110	51	20	0,376	8435179001824
040CDTM256	130	130	60	16	0,511	8435179001831
040CDTM257	150	150	72	12	0,700	8435179001848
040CDTM258	200	200	90	4	1,205	8435179001855

TECHNICAL SPECIFICATIONS

Protection degree IP 54 according to IEC 60529 (protection against penetration of solids and liquids). IK10 protection degree according to EN 62262 standard (protection against external mechanical impacts).

Material: Deep drawn steel plate type DC04 according to EN10130 standard.
Finish: Textured powder paint RAL 7032



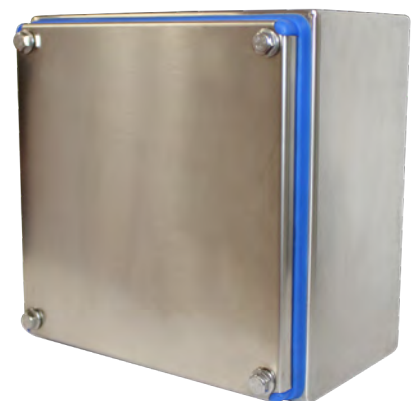
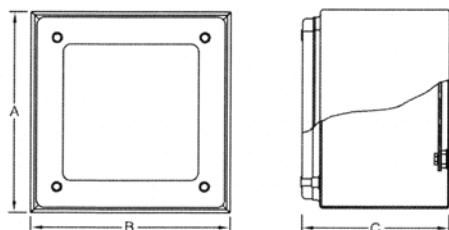
SS AISI 304 JUNCTION BOX

Reference	A (mm)	B (mm)	C (mm)	Packaging (u)	Fijaciones (u)	Weight (kg/u)	EAN13 code
041CDIM264	90	90	90	1	2	0,480	8435179009172
041CDIM265	90	140	90	1	2	0,640	8435179009189
041CDIM266	100	160	100	1	2	0,985	8435179009196
041CDIM267	160	160	100	1	4	1,385	8435179009202
041CDIM268	200	200	100	1	4	1,990	8435179009219
042FPIM002	-	-	-	2	-	-	8435179009226

TECHNICAL SPECIFICATIONS

Protection degree IP 66 according to IEC 60529 (protection against penetration of solids and liquids). IK10 protection degree according to EN 62262 standard (protection against external mechanical impacts).


Material: AISI 304 – 1.4301 - XrCrNi8-10.
Finish: Fine Brushed w2/Satin Look.



Profiles

C profiles

DIN rails



Steel profiles can have various shapes, dimensions and lengths, but they mainly have in common their manufacturing material: pre-galvanized carbon steel and their use: enable feasible situations and scenarios for any type of constructive use or related to the installation of any type of canalization in any type of infrastructure.

Profiles

C profiles

The use of steel profiles is especially useful for creating, fixing or support systems for tubes, cables and installations in general.

Its design allows the manufacture of structures to support moderate loads and short spans, it is a lightweight construction element and easy to install.

The perforated type C profile is manufactured to comply with the EN 60715-3 standard and comes in a pre-galvanized surface finish with a minimum thickness of 6 µm, providing corrosion resistance suitable for installation in moderate industrial environments.



Infrastructure



Tertiary/service



Electric vehicle



Industrial

DIN rails

The use of steel rails is increasingly widespread for mounting electrical, pneumatic, and hydraulic components in control cabinets, enclosure frames and panels.

The DIN rail is manufactured to comply with DIN 46277-3 and EN 5022. Thanks to its uniform profile, it ensures that electrical and electronic components can be obtained from various manufacturers and different suppliers knowing that all products can be mounted on the same rail.

They come with a pre-galvanized surface finish with passivation and lacquer, which guarantees their resistance to corrosion in moderate industrial environments, and even aggressive ones if the characteristics of the cabinet in where they are mounted allow it.



Infrastructure



Tertiary/service



Industrial



Electric vehicle



Energy



Machinery

PG TYPE C PROFILE

DIMENSIONS ACCORDING TO STANDARD EN 60715

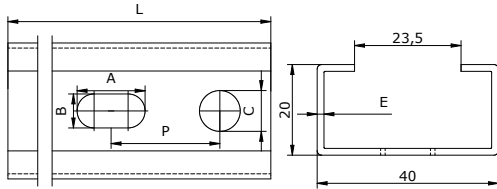
Reference	Selection (mm)	Length L (mm)	Thickness E (mm)	A (mm)	B (mm)	C (mm)	P (mm)	Packaging (m)	Weight (kg/m)	EAN13 code
080PCPG402	40x20	2000	1,5	20	10	12	32	24	0,910	8435179009615
080PCPG201	20x10	2000	1,0	15	6,3	12	25	24	0,310	8435179009622

TECHNICAL SPECIFICATIONS ACCORDING TO STANDARD EN 10346

Tensile strength between 320 N/mm² and 420 N/mm², Elongation at least 30%, 180° bending test horizontally and transversely with respect to the rolling direction, Minimum coating thickness 6 microns.

Material: Cold rolled carbon steel DX51+Z100 according to EN 10346 standard.

Finish: Pre-galvanized, continuous hot dip coating.



PG TYPE Ω DIN RAIL

DIMENSIONS ACCORDING TO DIN 46277-3 STANDARD

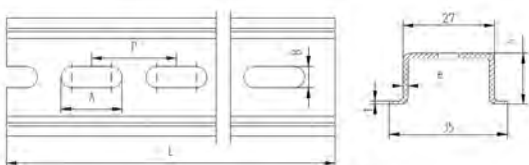
Reference	Type	Selection (mm)	Length L (mm)	Thickness E (mm)	A (mm)	B (mm)	P (mm)	h (mm)	Packaging (m)	Weight (kg/m)	EAN13 code
080POPG315	Perforated	35x15	2000	1,5	18	6,3	25	15	20	0,610	8435179009653
080POCG315	Blind	35x15	2000	1,5	-	-	-	15	20	0,680	8435179009660
080POPG375	Perforated	35x7,5	2000	1,0	18	6,3	25	7,5	20	0,325	8435179009677
080POCG375	Blind	35x7,5	2000	1,0	-	-	-	7,5	20	0,350	8435179009684

TECHNICAL SPECIFICATIONS ACCORDING TO STANDARD EN 10346

Tensile strength between 320 N/mm² and 420 N/mm², Elongation at least 30%, 180° bending test horizontally and transversely with respect to the rolling direction, Minimum coating thickness 6 microns.

Material: Cold rolled carbon steel DX51+Z100 according to EN 10346 standard.

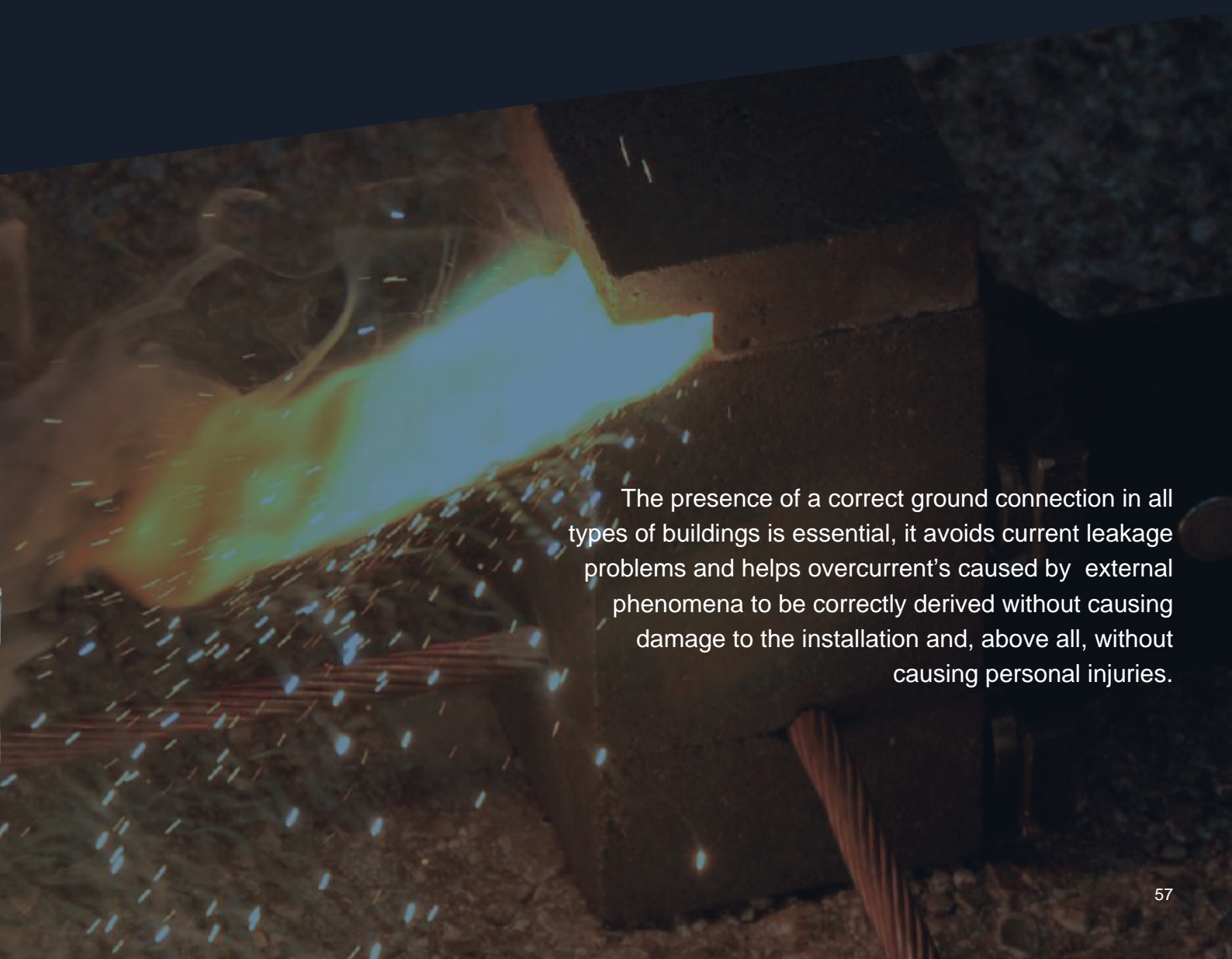
Finish: Pre-galvanized, continuous hot dip coating.



Grounding material

Rods and clamps

Aluminothermic welding



The presence of a correct ground connection in all types of buildings is essential, it avoids current leakage problems and helps overcurrent's caused by external phenomena to be correctly derived without causing damage to the installation and, above all, without causing personal injuries.

Rods and clamps

To facilitate dissipation and reduce the resistance of the ground circuit, cylindrical rods are installed which are driven directly into the substrate at a depth according to the needs of the installation.

The steel-copper rods optimize the conductivity on the ground and improve the resistance to corrosion. They are manufactured to comply with the UNE 200206 standard (100 µm thick copper-plated rods) and according to the UNE 21056 standard (300 µm rods, grounding electrodes for high voltage installations).

To connect the grounding electrodes, we have connection flanges specially designed to work in contact with the copper of the electrodes, under the electrochemical couple between both materials, increasing the corrosion resistance of the joint.



Infrastructure



Tertiary/service



Electric vehicle



Industrial



Energy

TT UNTHREADED ROD 100 μm

Reference	Thickness Copper layer (μm)	Length L (mm)	Ø Exterior D (mm)	Packaging (m)	Weight (kg/u)	EAN13 code
500PTT1514	100	1500	14,2	5	1,800	8435179001893
500PTT2014	100	2000	14,2	5	2,400	8435179001909

TECHNICAL SPECIFICATIONS ACCORDING TO UNE 202006 STANDARD

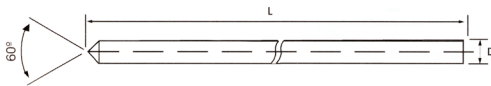
Grounding electrodes for low voltage installations. Attachable cylindrical steel-copper spikes and their accessories.

Steel core hardness: 200 + 20 HB. **Coating thickness:** 100μm. **Coating Type:** Electrolytic copper with a minimum purity of 99.9% according to UNE 20003 standard.

Material: Carbon steel round calibrated quality S235JR + C according to UNE-EN 10277-2 Standard.

Surface finish: ETP Cu Flash + DHP Cu Coating.

Minimum diameter of the steel core: 14 mm.



TT UNTHREADED ROD 300 μm

Reference	Thickness Copper layer (μm)	Length L (mm)	Ø Exterior D (mm)	Packaging (m)	Weight (kg/u)	EAN13 code
500PTT1516	300	1500	14,6	5	1,900	8435179008908
500PTT2016	300	2000	14,6	5	2,530	8435179008915

TECHNICAL SPECIFICATIONS ACCORDING TO UNE 21056 STANDARD

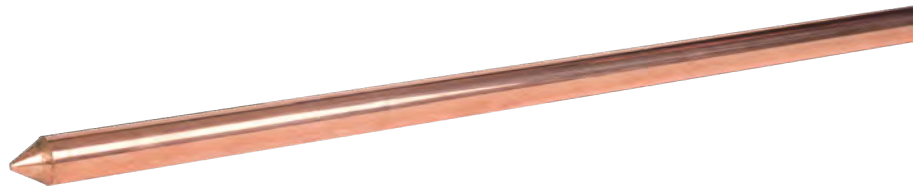
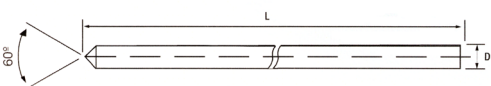
Grounding electrodes. Attachable cylindrical steel-copper spikes and their accessories.

Steel core hardness: 200 + 20 HB. **Coating thickness:** 300μm. **Coating Type:** Electrolytic copper with a minimum purity of 99.9% according to UNE 20003 standard.

Material: Carbon steel round calibrated quality S235JR + C according to UNE-EN 10277-2 Standard.

Surface finish: ETP Cu Flash + DHP Cu Coating.

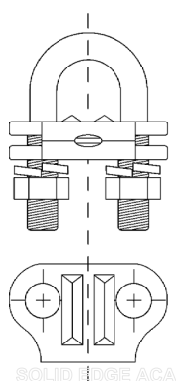
Minimum diameter of the steel core: 14 mm.



GC40 CLAMP

Reference	Ø Maximum electrode (mm)	Cable admissible (mm ²)	Packaging (u)	Weight (kg/u)	EAN13 code
500BGC0040	14,6	16 a 35	20	0,082	8435179001862

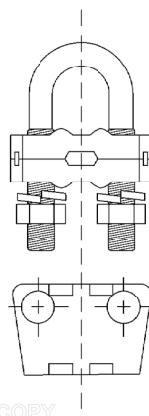
Staple Body Material: CC754S Brass Alloy according to EN 1982 Standard.
U-Bolt Material: Calibrated carbon steel C9D according to UNE-EN 10016 Standard.
Surface finish: ECOTRI Trivalent ElectroGalvanized™.



GC63 CLAMP

Reference	Ø Maximum electrode (mm)	Cable admissible (mm ²)	Packaging (u)	Weight (kg/u)	EAN13 code
500BGC0063	18,3	25 a 70	20	0,134	8435179001879

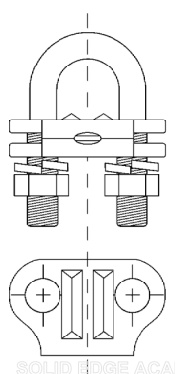
Staple Body Material: CC754S Brass Alloy according to EN 1982 Standard.
U-Bolt Material: Calibrated carbon steel C9D according to UNE-EN 10016 Standard.
Surface finish: ECOTRI Trivalent ElectroGalvanized™.



SS AISI 304 GC40 CLAMP

Reference	Ø Maximum electrode (mm)	Cable admissible (mm ²)	Packaging (u)	Weight (kg/u)	EAN13 code
500BGCI040	14,6	16 a 35	20	0,098	8435179009639

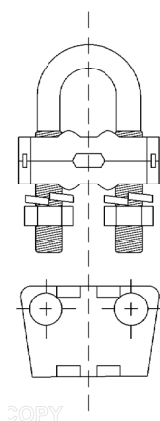
Staple Body Material: CC754S Brass Alloy according to EN 1982 Standard.
U-Bolt Material: Stainless steel type AISI304 – 1.4301 (X5CrNi18-10).



SS AISI 304 GC63 CLAMP

Reference	Ø Maximum electrode (mm)	Cable admissible (mm ²)	Packaging (u)	Weight (kg/u)	EAN13 code
500BGCI063	18,3	25 a 70	20	0,134	8435179009646

Staple Body Material: CC754S Brass Alloy according to EN 1982 Standard.
U-Bolt Material: Stainless steel type AISI304 – 1.4301 (X5CrNi18-10).



Aluminothermic Welding

Another method of joining the ground electrode and the installation is by using aluminothermic welding. It consists of the use of a mold or crucible in which the electrode (rod) is inserted on one side, the copper cable on the other, and the addition of an aluminum and copper oxide compound called thermite. The controlled deflagration of this compound inside the mold permanently joins the rod and the cable by means of fusion.

These are the main advantages of using aluminothermic welding to make grounding joints:

- It is a union that does not require any specific or periodic maintenance.
- It has a greater current transmission capacity than the conductors it joins.
- Eliminates negative aspects such as thermal stresses due to area reductions.
- Can repeat different fault currents without losing connection.
- It can be validated through visual inspection.
- It can be applied in both copper-copper and copper-steel connections.



Infrastructure



Tertiary/service



Electric vehicle



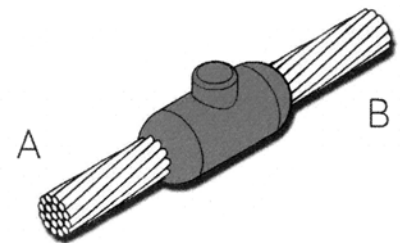
Industrial



Energy

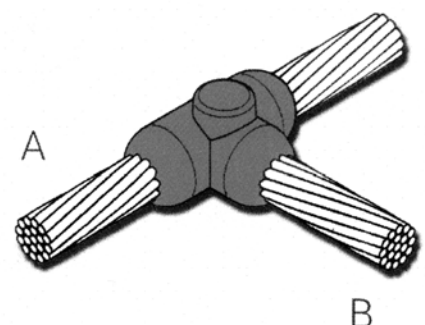
HORIZONTAL STRAIGHT MOLD FOR CABLES

Reference	Selection Cable A (mm ²)	Selection Cable B (mm ²)	ID Mold	Cartridge Welding	Mold Tongs	Pallette Scraper	Packaging (u)	Weight (kg/u)	EAN13 code
0510CRH3535	35	35	CCS-35/35	0511CART032	0512TEMOL01	0512PARAS01	1	1,160	8435179009776
0510CRH5035	50	35	CCS-50/35	0511CART045	0512TEMOL01	0512PARAS01	1	1,160	8435179009783
0510CRH5050	50	50	CCS-50/50	0511CART045	0512TEMOL01	0512PARAS01	1	1,160	8435179009790
0510CRH7035	70	35	CCS-70/35	0511CART045	0512TEMOL01	0512PARAS01	1	1,160	8435179009806
0510CRH7070	70	70	CCS-70/70	0511CART065	0512TEMOL01	0512PARAS01	1	1,160	8435179009813
0510CRH9535	95	35	CCS-95/35	0511CART065	0512TEMOL01	0512PARAS01	1	1,160	8435179009820
0510CRH9595	95	95	CCS-95/95	0511CART090	0512TEMOL01	0512PARAS01	1	1,160	8435179009837
0510CRH1212	120	120	CCS-120/120	0511CART115	0512TEMOL01	0512PARAS01	1	1,160	8435179009844
0510CRH1515	150	150	CCS-150/150	0511CART115	0512TEMOL01	0512PARAS01	1	1,160	8435179009851



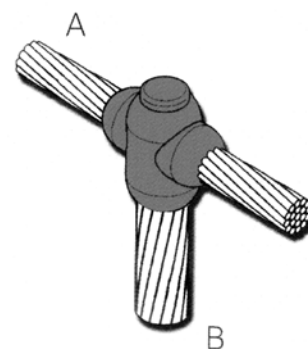
HORIZONTAL T MOLD FOR CABLES

Reference	Selection Cable A (mm ²)	Selection Cable B (mm ²)	ID Mold	Cartridge Welding	Mold Tongs	Pallette Scraper	Packaging (u)	Weight (kg/u)	EAN13 code
0510CTH3535	35	35	CCT-35/35	0511CART045	0512TEMOL01	0512PARAS01	BOX	1,160	8435179009868
0510CTH5035	50	35	CCT-50/35	0511CART065	0512TEMOL01	0512PARAS01	BOX	1,160	8435179009875
0510CTH5050	50	50	CCT-50/50	0511CART090	0512TEMOL01	0512PARAS01	BOX	1,160	8435179009882
0510CTH7035	70	35	CCT-70/35	0511CART065	0512TEMOL01	0512PARAS01	BOX	1,160	8435179009899
0510CTH7070	70	70	CCT-70/70	0511CART090	0512TEMOL01	0512PARAS01	BOX	1,160	8435179009905
0510CTH9535	95	35	CCT-95/35	0511CART090	0512TEMOL01	0512PARAS01	BOX	1,160	8435179009912
0510CTH9595	95	95	CCT-95/95	0511CART115	0512TEMOL01	0512PARAS01	BOX	1,160	8435179009929
0510CTH1212	120	120	CCT-120/120	0511CART150	0512TEMOL01	0512PARAS01	BOX	1,160	8435179009936
0510CTH1515	150	150	CCT-150/150	0511CART200	0512TEMOL01	0512PARAS01	BOX	1,160	8435179009943



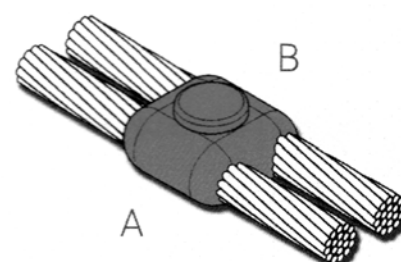
VERTICAL T MOLD FOR CABLES

Reference	Selection Cable A (mm ²)	Selection Cable B (mm ²)	ID Mold	Cartridge Welding	Mold Tongs	Palette Scraper	Packaging (u)	Weight (kg/u)	EAN13 code
0510CTV3535	35	35	CCVT-35/35	0511CART065	0512TEMOL01	0512PARAS01	1	1,160	8435179009950
0510CTV5035	50	35	CCVT-50/35	0511CART065	0512TEMOL01	0512PARAS01	1	1,160	8435179009967
0510CTV5050	50	50	CCVT-50/50	0511CART090	0512TEMOL01	0512PARAS01	1	1,160	8435179009974
0510CTV7035	70	35	CCVT-70/35	0511CART090	0512TEMOL01	0512PARAS01	1	1,160	8435179009981
0510CTV7070	70	70	CCVT-70/70	0511CART090	0512TEMOL01	0512PARAS01	1	1,160	8435179009998
0510CTV9535	95	35	CCVT-95/35	0511CART090	0512TEMOL01	0512PARAS01	1	1,160	8435179010000
0510CTV9595	95	95	CCVT-95/95	0511CART115	0512TEMOL01	0512PARAS01	1	1,160	8435179010017
0510CTV1212	120	120	CCVT-120/120	0511CART150	0512TEMOL01	0512PARAS01	1	1,160	8435179010024
0510CTV1515	150	150	CCVT-150/150	0511CART200	0512TEMOL01	0512PARAS01	1	1,160	8435179010031



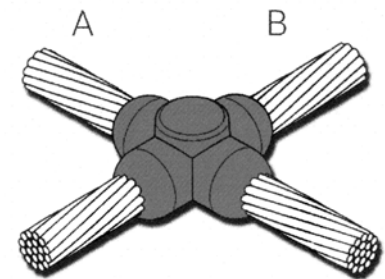
HORIZONTAL PARALLEL MOLD FOR CABLES

Reference	Selection Cable A (mm ²)	Selection Cable B (mm ²)	ID Mold	Cartridge Welding	Mold Tongs	Palette Scraper	Packaging (u)	Weight (kg/u)	EAN13 code
0510CPH3535	35	35	CCH-35/35	0511CART065	0512TEMOL01	0512PARAS01	1	1,160	8435179010048
0510CPH5035	50	35	CCH-50/35	0511CART090	0512TEMOL01	0512PARAS01	1	1,160	8435179010055
0510CPH5050	50	50	CCH-50/50	0511CART090	0512TEMOL01	0512PARAS01	1	1,160	8435179010062
0510CPH7035	70	35	CCH-70/35	0511CART090	0512TEMOL01	0512PARAS01	1	1,160	8435179010079
0510CPH7070	70	70	CCH-70/70	0511CART115	0512TEMOL01	0512PARAS01	1	1,160	8435179010086
0510CPH9535	95	35	CCH-95/35	0511CART115	0512TEMOL01	0512PARAS01	1	1,160	8435179010093
0510CPH9595	95	95	CCH-95/95	0511CART150	0512TEMOL01	0512PARAS01	1	1,160	8435179010109
0510CPH1212	120	120	CCH-120/120	0511CART200	0512TEMOL01	0512PARAS01	1	1,160	8435179010116
0510CPH1515	150	150	CCH-150/150	2x 0511CART150	0512TEMOL01	0512PARAS01	1	1,160	8435179010123



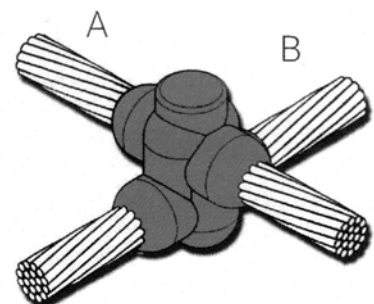
HORIZONTAL X MOLD FOR CABLES

Reference	Selection Cable A (mm ²)	Selection Cable B (mm ²)	ID Mold	Cartridge Welding	Mold Tongs	Palette Scraper	Packaging (u)	Weight (kg/u)	EAN13 code
0510CXH3535	35	35	CCX-35/35	0511CART065	0512TEMOL01	0512PARAS01	1	1,160	8435179010130
0510CXH5035	50	35	CCX-50/35	0511CART090	0512TEMOL01	0512PARAS01	1	1,160	8435179010147
0510CXH5050	50	50	CCX-50/50	0511CART090	0512TEMOL01	0512PARAS01	1	1,160	8435179010154
0510CXH7035	70	35	CCX-70/35	0511CART115	0512TEMOL01	0512PARAS01	1	1,160	8435179010161
0510CXH7070	70	70	CCX-70/70	0511CART115	0512TEMOL01	0512PARAS01	1	1,160	8435179010178
0510CXH9535	95	35	CCX-95/35	0511CART115	0512TEMOL01	0512PARAS01	1	1,160	8435179010185
0510CXH9595	95	95	CCX-95/95	0511CART150	0512TEMOL01	0512PARAS01	1	1,160	8435179010192
0510CXH1212	120	120	CCX-120/120	0511CART200	0512TEMOL01	0512PARAS01	1	1,160	8435179010208
0510CXH1515	150	150	CCX-150/150	0511CART250	0512TEMOL01	0512PARAS01	1	1,160	8435179010215



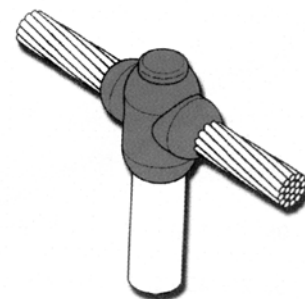
X OVERLAPPED MOLD FOR CABLES

Reference	Selection Cable A (mm ²)	Selection Cable B (mm ²)	ID Mold	Cartridge Welding	Mold Tongs	Palette Scraper	Packaging (u)	Weight (kg/u)	EAN13 code
0510CXS3535	35	35	CCO-35/35	0511CART115	0512TEMOL01	0512PARAS01	BOX	1,160	8435179010222
0510CXS5035	50	35	CCO-50/35	0511CART150	0512TEMOL01	0512PARAS01	BOX	1,160	8435179010239
0510CXS5050	50	50	CCO-50/50	0511CART150	0512TEMOL01	0512PARAS01	BOX	1,160	8435179010246
0510CXS7035	70	35	CCO-70/35	0511CART150	0512TEMOL01	0512PARAS01	BOX	1,160	8435179010253
0510CXS7070	70	70	CCO-70/70	0511CART200	0512TEMOL01	0512PARAS01	BOX	1,160	8435179010260
0510CXS9535	95	35	CCO-95/35	0511CART200	0512TEMOL01	0512PARAS01	BOX	1,160	8435179010277
0510CXS9595	95	95	CCO-95/95	0511CART250	0512TEMOL01	0512PARAS01	BOX	1,160	8435179010284
0510CXS1212	120	120	CCO-120/120	2x 0511CART150	0512TEMOL02	0512PARAS02	BOX	1,160	8435179010291
0510CXS1515	150	150	CCO-150/150	2x 0511CART200	0512TEMOL02	0512PARAS02	BOX	1,160	8435179010307



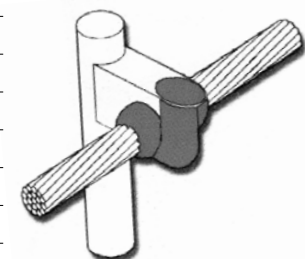
VERTICAL T MOLD FOR RODS

Reference	Ø Pica (mm)	Selection Cable (mm ²)	ID Mold	Cartridge Welding	Mold Tongs	Pallette Scraper	Packaging (u)	Weight (kg/u)	EAN13 code
0510PTV4235	14,2	35	ERT-14,2/35	0511CART090	0512TEMOL01	0512PARAS01	1	1,160	8435179010314
0510PTV4250	14,2	50	ERT-14,2/50	0511CART090	0512TEMOL01	0512PARAS01	1	1,160	8435179010321
0510PTV4270	14,2	70	ERT-14,2/70	0511CART115	0512TEMOL01	0512PARAS01	1	1,160	8435179010338
0510PTV4295	14,2	95	ERT-14,2/95	0511CART115	0512TEMOL01	0512PARAS01	1	1,160	8435179010345
0510PTV4212	14,2	120	ERT-14,2/120	0511CART150	0512TEMOL01	0512PARAS01	1	1,160	8435179010352
0510PTV4215	14,2	150	ERT-14,2/150	0511CART200	0512TEMOL01	0512PARAS01	1	1,160	8435179010369
0510PTV4635	14,6	35	ERT-14,6/35	0511CART090	0512TEMOL01	0512PARAS01	1	1,160	8435179010376
0510PTV4650	14,6	50	ERT-14,6/50	0511CART090	0512TEMOL01	0512PARAS01	1	1,160	8435179010383
0510PTV4670	14,6	70	ERT-14,6/70	0511CART115	0512TEMOL01	0512PARAS01	1	1,160	8435179010390
0510PTV4695	14,6	95	ERT-14,6/95	0511CART115	0512TEMOL01	0512PARAS01	1	1,160	8435179010406
0510PTV4612	14,6	120	ERT-14,6/120	0511CART150	0512TEMOL01	0512PARAS01	1	1,160	8435179010413
0510PTV4615	14,6	150	ERT-14,6/150	0511CART200	0512TEMOL01	0512PARAS01	1	1,160	8435179010420
0510PTV8335	18,3	35	ERT-18,3/35	0511CART090	0512TEMOL01	0512PARAS01	1	1,160	8435179010437
0510PTV8350	18,3	50	ERT-18,3/50	0511CART115	0512TEMOL01	0512PARAS01	1	1,160	8435179010444
0510PTV8370	18,3	70	ERT-18,3/70	0511CART115	0512TEMOL01	0512PARAS01	1	1,160	8435179010451
0510PTV8395	18,3	95	ERT-18,3/95	0511CART115	0512TEMOL01	0512PARAS01	1	1,160	8435179010468
0510PTV8312	18,3	120	ERT-18,3/120	0511CART150	0512TEMOL01	0512PARAS01	1	1,160	8435179010475
0510PTV8315	18,3	150	ERT-18,3/150	0511CART200	0512TEMOL01	0512PARAS01	1	1,160	8435179010482



VERTICAL X MOLD FOR RODS

Reference	Ø Pica (mm)	Selection Cable (mm ²)	ID Mold	Cartridge Welding	Mold Tongs	Pallette Scraper	Packaging (u)	Weight (kg/u)	EAN13 code
0510PXV4235	14,2	35	ER1X-14,2/35	0511CART090	0512TEMOL01	0512PARAS01	1	2,000	8435179010499
0510PXV4250	14,2	50	ER1X-14,2/50	0511CART115	0512TEMOL01	0512PARAS01	1	2,000	8435179010505
0510PXV4270	14,2	70	ER1X-14,2/70	0511CART115	0512TEMOL01	0512PARAS01	1	2,000	8435179010512
0510PXV4295	14,2	95	ER1X-14,2/95	0511CART115	0512TEMOL01	0512PARAS01	1	2,000	8435179010529
0510PXV4212	14,2	120	ER1X-14,2/120	0511CART150	0512TEMOL01	0512PARAS01	1	2,000	8435179010536
0510PXV4215	14,2	150	ER1X-14,2/150	0511CART200	0512TEMOL01	0512PARAS01	1	2,000	8435179010543
0510PXV4635	14,6	35	ER1X-14,6/35	0511CART090	0512TEMOL01	0512PARAS01	1	2,000	8435179010550
0510PXV4650	14,6	50	ER1X-14,6/50	0511CART115	0512TEMOL01	0512PARAS01	1	2,000	8435179010567
0510PXV4670	14,6	70	ER1X-14,6/70	0511CART115	0512TEMOL01	0512PARAS01	1	2,000	8435179010574
0510PXV4695	14,6	95	ER1X-14,6/95	0511CART115	0512TEMOL01	0512PARAS01	1	2,000	8435179010581
0510PXV4612	14,6	120	ER1X-14,6/120	0511CART150	0512TEMOL01	0512PARAS01	1	2,000	8435179010598
0510PXV4615	14,6	150	ER1X-14,6/150	0511CART200	0512TEMOL01	0512PARAS01	1	2,000	8435179010604
0510PXV8335	18,3	35	ER1X-18,3/35	0511CART090	0512TEMOL01	0512PARAS01	1	2,000	8435179010611
0510PXV8350	18,3	50	ER1X-18,3/50	0511CART115	0512TEMOL01	0512PARAS01	1	2,000	8435179010628
0510PXV8370	18,3	70	ER1X-18,3/70	0511CART150	0512TEMOL01	0512PARAS01	1	2,000	8435179010635
0510PXV8395	18,3	95	ER1X-18,3/95	0511CART150	0512TEMOL01	0512PARAS01	1	2,000	8435179010642
0510PXV8312	18,3	120	ER1X-18,3/120	0511CART200	0512TEMOL01	0512PARAS01	1	2,000	8435179010659
0510PTV8315	18,3	150	ER1X-18,3/150	0511CART250	0512TEMOL01	0512PARAS01	1	2,000	8435179010482











WELDING CARTRIDGE

Reference	Weight (gr)	Packaging (u)	Weight (kg/u)	EAN13 code
0511CART032	32	20	0,078	8435179009691
0511CART045	45	20	0,056	8435179009707
0511CART065	65	10	0,083	8435179009714
0511CART090	90	10	0,117	8435179009721
0511CART115	115	10	0,142	8435179009738
0511CART150	150	10	0,178	8435179009745
0511CART200	200	10	0,230	8435179009752
0511CART250	250	10	0,294	8435179009769



ACCESSORY SELECTION

Image	Description	Reference	Packaging (u)	Weight (kg/u)	EAN13 code
	MOLD TONGS 1	0512TEMOL01	1	1,231	8435179010673
	MOLD TONGS 2	0512TEMOL02	1	2,000	8435179010680
	SCRAPER PALLETTE MOLD 1	0512PARAS01	1	0,149	8435179010703
	SCRAPER PALLETTE MOLD 2	0512PARAS02	1	0,149	8435179010710
	PASTE SEALING MOLD	0512PASEL00	1	0,100	8435179010727
	IGNITION GUN	0512PISIG00	1	0,126	8435179010734
	WELDING PROTECTIVE GLOVES	0512GUAPR00	1	0,050	8435179010741
	WELDING PROTECTION GLASSES	0512GAFPR00	1	0,026	8435179010758
	CARD BRUSH FOR CONDUCTORS	0512CECON00	1	0,073	8435179010765
	CLEANING BRUSH MOLD	0512BROML00	1	0,028	8435179010772

Product Standards

AENOR

Certificado AENOR de Producto Sistema de tubos para conducción de cables



030/002126

AENOR certifica que la organización

NAPOLEON ARMENGOL, S.L.

con domicilio social en CL PINTOR JUAN MIRO, 12-14 PI CAN HUMET 08213 POLINYA (Barcelona - España)

suministra Sistemas de tubos rígidos para la conducción de cables

IEC-EN 61386







The IEC-EN 61386 standard, is an international standard that defines the general requirements for tube systems for the cable conduction. The standards specifies the test that are must be

applied to tube systems and provides for the system to be classified on the basis of mechanical, thermal and electrical characteristics with a code.

Classification codes of Tube Systems according to IEC-EN 61386 standard

		0	1	2	3	4	5	6	7
First digit	Resistance to compression		Very light 125N	Light 320N	Medium 750N	Heavy 1250N	Very heavy 4000N		
Second digit	Resistance to impact		Very light 0,5J	Light 1J	Medium 2J	Heavy 6J	Very heavy 20J		
Third digit	Lower temperature range		+5°	-5°	-15°	-25°	-45°		
Fourth digit	Upper temperature range		+60°	+90°	+105°	+120°	+150°	+250°	+400°
Fifth digit	Resistance to bending		Rigid	Pliable	Pliable/Self recovering	Flexible			
Sixth digit	Electrical characteristics	None declared	With electrical continuity characteristics	With electrical insulating characteristics	With electrical continuity and insulating characteristics				
Seventh digit	Protection against ingress of solid objects				Protected against solid foreign objects of 2,5 mm diameter and greater	Protected against solid foreign objects of 1,0 mm diameter and greater	Dust protected	Dust-tight	
Eighth digit	Protection against ingress of water	None declared	Protected against vertically falling water drops	Protected against vertically falling water drops when the conduct system is tilted up to an angle of 15°	Protected against splashing water	Protected against splashing water	Protected against splashing water jets	Protected against powerful water jets	Protected against the effects of temporary immersion in water
Ninth digit	Resistance against corrosion		Low protection inside and outside	Medium protection inside and outside	Medium protection inside, high protection outside	High protection inside and outside			
Tenth digit	Tensile strenght	None declared	Very light tensile strenght 100N	Light tensile strenght 250N	Medium tensile strenght 500N	Heavy tensile strenght 1000N	Very heavy tensile strenght 2500N		
Eleventh digit	Resistance to flame propagation		None-flame propagating	Flame propagating					
Twelfth digit	Suspended load capacity	None declared	Very light suspended load capacity 20N	Light suspended load capacity 30N	Medium suspended load capacity 150N	Heavy suspended load capacity 450N	Very heavy suspended load capacity 850N		

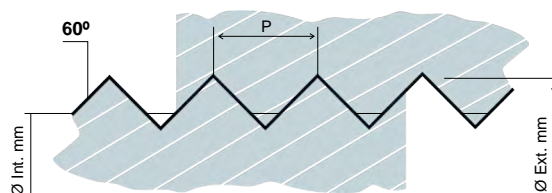
Classification of ARMENGOL tube systems

P.	Finish	Material	Type	Endurance Compression	Endurance Impact	Range Temperatures	Degree IP protection of the system	Endurance to the curved	Endurance UV rays
7		Electrogalvanized Steel (EG)	TARM TROM	4000 N	20J	-45°C +400°C	IP54	Rigid	Yes
17		Galvanized hot dip (HD)	TARMG TROMG	4000 N	20J	-45°C +400°C	IP54	Rigid	Yes
21		ARMET Stainless Steel (HH)	TARMI	4000 N	20J	-45°C +400°C	IP67	Rigid	Yes
25		ARMET Gray Insulator (PVC)	TAMPV	1250 N	2J	-5°C +60°C	IP54	Rigid	No
29		ARMET Gray Insulator (LH)	TAMLH	1250 N	6J	-15°C +90°C	IP54	Rigid	No
35		Polyamide Insulator (PA6)	T1GDN T1NDN	320 N	6J	-25°C +105°C	IP66 - 68*	Flexible	Yes

* Mounting an O-ring between the flexible tube and its fitting.

IEC-EN 60423

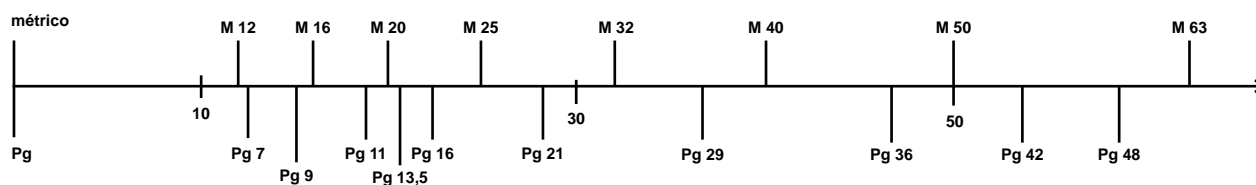
The IEC-EN 60423 standard is an international standard that specifies the external diameters of tubes used in electrical installations or telecommunications systems and the dimensional requirements of the threads. Specifies the dimensional requirements for threads used in complementary accessories.



Metric thread IEC-EN 60423

Extent	External thread		Internal thread		Step (mm)
	Ø Exterior máx. (mm)	Ø Interior máx. (mm)	Ø Exterior mín. (mm)	Ø Interior mín. (mm)	
M12x1,5	11,968	10,128	12,000	10,376	1,5
M16x1,5	15,968	14,128	16,000	14,376	1,5
M20x1,5	19,968	18,128	20,000	18,376	1,5
M25x1,5	24,968	23,128	25,000	23,376	1,5
M32x1,5	31,968	30,128	32,000	30,376	1,5
M40x1,5	39,968	38,128	40,000	38,376	1,5
M50x1,5	49,968	48,128	50,000	48,376	1,5
M63x1,5	62,968	61,128	63,000	61,376	1,5

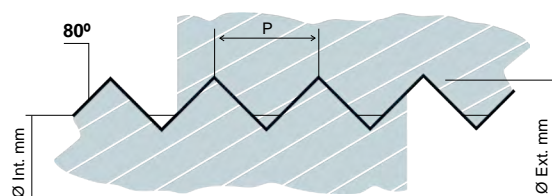
Metric-PG thread equivalences



PG thread DIN 40430

PG	Ø Exterior mm	Ø Interior mm	Step mm
7	12,50	11,28	1,270
9	15,20	13,86	1,410
11	18,60	17,26	1,410
13	20,40	19,06	1,410
16	22,50	21,16	1,410
21	28,30	26,78	1,588
29	37,00	35,48	1,588
36	47,00	45,48	1,588
42	54,00	52,48	1,588
48	59,30	57,78	1,588

PG thread



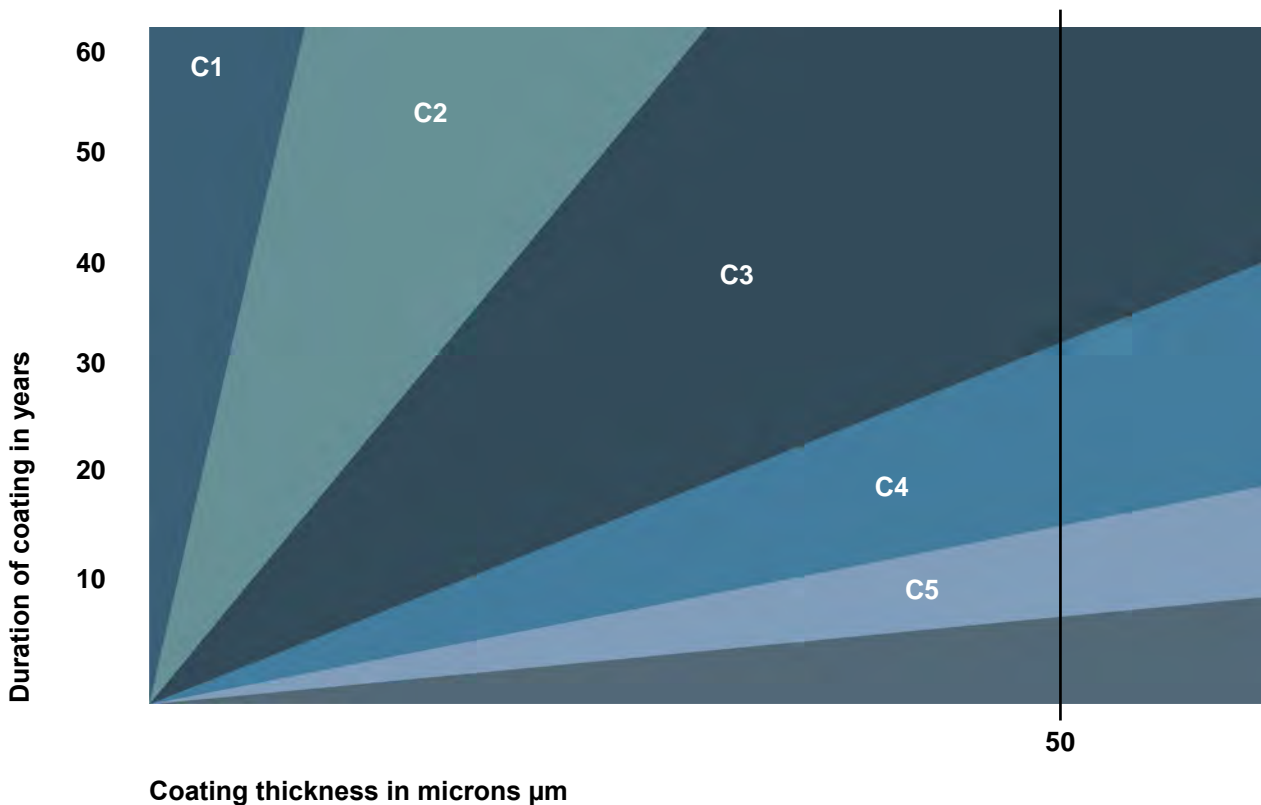
UNE-EN-ISO 1461

The UNE-EN-ISO 1461 standard is an international standard that specifies the general properties and test methods of coatings

applied by immersion of finished iron and steel products in a bath of melted zinc.

Duration of galvanized coatings according to UNE-EN-ISO 14713 standard

Corrosivity Category (Type of environment)		Zn corrosion rate ($\mu\text{m}/\text{year}$)
C1	Indoor: Dry.	< 0,1
C2	Interior: occasional condensation. Exterior: rural in the interior of the country.	< 0,1
C3	Indoor: high humidity, slightly polluted air. Exterior: urban in the interior of the country or coastal with low salinity.	0,7 a 2
C4	Indoor: swimming pools, chemical plants, etc. Exterior: industrial in the interior of the country or coastal urban.	2 a 4
C5	Exterior: very humid industrial or coastal with high salinity	4 a 8



Hot-dip galvanizing is a process consisting in the formation of a zinc coating on the steel tube and accessories by immersing them in a bath of molten zinc at 450°C , providing a triple action with the coating.

1. Barrier protection. Isolating it from the aggressive environment.
2. Cathodic or sacrificial protection: Zinc forms the anodic part of the corrosion piles that can form and is slowly consumed to

provide protection to the steel. As long as the zinc coating is present, the steel is not subject to any corrosive attack.

3. Restoration of bare areas: If the zinc layer is damaged due to corrosion or mechanical damage, the zinc adjacent to the steel forms an insoluble zinc salt on the exposed steel. This restores the break and continues to protect the surface from corrosion.

IEC-EN 60529

IEC-EN 60529 is an international standard that classifies the degrees of protection provided by enclosures. The degree of protection (watertightness) is indicated by two characteristic figures followed by the letters IP:

1st Figure (IPxX), protection of people against access to dangerous parts of the equipment or protection against external

attacks (vandalism) to the tube + union accessory/fitting – enclosure assembly.

2nd Figure (IPXX), Protection against harmful effects on the tube + union accessory/fitting – casing assembly due to the penetration of water or other liquids.

IPxX Protection against the penetration of solid bodies.

IPXX Protection against the penetration of solid bodies

	0	Without protection.
	1	Protection against objects larger than 50 mm, accidental contact with hands.
	2	Protection against objects larger than 12 mm, accidental contact with fingers.
	3	Protection against objects larger than 2.5 mm, contact with tools or cables.

	4	Protection against objects larger than 1 mm, contact with tools or cables.
	5	Dust protection.
	6	Full protection against dust.

IPXX Protection against liquid ingress

	0	Without protection.
	1	Protection against water drops falling vertically.
	2	Protection against water projections up to 15° from the vertical.
	3	Protection against water projections up to 60° from the vertical.
	4	Protection against water projections in all directions.

	5	Protection against water jets in all directions.
	6	Protection against high pressure water jets in all directions.
	7	Protection against the effects of immersion in water to a maximum depth of 1 m.
	8	Protection against the effects of immersion in water at a pressure of 2 bar.
	9	Protection against high pressure water jets (100 bar) from any angle at high temperature (80°C).

IEC-EN 62262

The IEC-EN 60529 standard is an international standard that classifies the degrees of protection provided by electrical material enclosures against external mechanical impacts.

Refers to IK protection grade ratings, it is a classification that provides a means of specifying the ability of an enclosure to protect its contents from external impacts. The IK Code was originally defined in the European standard BS EN 50102 (1995, amendment 1998). Following its adoption as an international standard in 2002, the European standard EN 62262 was renumbered.

Before the advent of the IK code, a third number was occasionally added to the IP Protection Rating, to indicate the level of protection against impacts - for example, IP54 (9). The non-standard use of this system was one of the factors that led to the development of this standard, which uses a separate two- number code to distinguish it from already existing systems.

It specifies how the enclosures should be mounted when testing is carried out, the atmospheric conditions that should prevail, the number of impacts, and even the layout, size, style, material, dimensions, etc. of the different hammer types designed to produce the required energy levels.



IK code and impact energy

IK code	Impact Energy (Joules)
IK00	*
IK01	0,15
IK02	0,20
IK03	0,35
IK04	0,50
IK05	0,70
IK06	1
IK07	2
IK08	5
IK09	10
IK10	20

UNE 202006

The UNE 202006 standard is a national standard (Spain) that specifies the characteristics that must be met by grounding electrodes made up of cylindrical steel rods covered with a layer of copper, for their protection against corrosion and to improve their resistance to corrosion ground contact, and its accessories.

The rods covered by this standard are intended to be used in low voltage electrical installations according to the cases described in the Standard UNE 20460 (UNE-HD- 60364) and, in particular, in

Practical case of a grounding installation

Installation calculation:

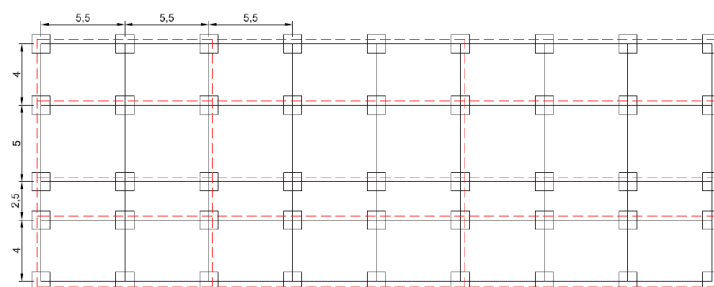
Let's explain the calculation through an example.

We have a building with the following characteristics: Residential building.

Ground connection formed by a buried copper conductor and 2m long rods.

Terrain: compacted limestone with a resistivity, $\rho = 1500 \text{ Wxm}$.

Foundation plan according to the following scheme:



The length of the buried copper conductor is 282 m. (In the foundation diagram, the conductor appears as dashed lines in red)

We want to calculate the number of 2 m rods of necessary length.

First of all, we must take into account that the set of rods and the ring are parallel to the ground, therefore, it is true that:

Formula 1. Total resistance in parallel connections $1 / R_t = 1 / R_c + 1 / R_p$

Where:

R_t is the total resistance.

R_c is the resistance of the buried conductor

R_p is the resistance of the spikes.

We will limit the resistance to ground to 10 W, as explained in the previous section.

Then $R_t = 10 \text{ W}$

According to Table 1, the resistance of the conductor is: $R_c = 2\rho / L$, substituting:

$$R_c = (2 \cdot 1,500) / 282 = 10.64 \Omega$$

From this value, the number of spikes (2 m each) can be obtained by solving it for the following formula, obtained from the one expressed in Table 1.

$$R_p = \rho / n \cdot \pi \cdot L \text{ ---- } 166.67 \text{ W} = 1,500 / n \cdot \pi \cdot 2 \text{ ----- } n \cdot \pi = 4.5 \text{ rods, which are 5 RODS.}$$

accordance with the Standard UNE 20460-5-54.

They are indicated for any type of terrain, especially for corrosive ones and for those with high resistivity.

This rule does not apply to:

- Rods for high voltage protection.
- Rods for protection in lightning protection installations.

Bibliography:

[1.] GROUNDING OF BUILDINGS:

Martínez Anton, Alicia; Blanca Giménez, Vicente; Castilla Cabanes, Nùria; Pastor Villa, Rosa Maria.

[2.] ROYAL DECREE 842/2002, of August 2, which approves the REGULATION

ELECTROTECHNICAL FOR LOW VOLTAGE.

Complementary Technical Instruction: - ITC-BT-18: Grounding installations.

[3.] ROYAL DECREE 401/2003, of April 4, which approves the Regulation of common telecommunications infrastructures for access to telecommunications services inside buildings and the activity of equipment installation and telecommunications systems.

General terms and conditions of sale

ARMENGOL, S.L.
Polígono Industrial Can Humet · Pintor Joan Miró, 12-14
08213 POLINYÀ · Barcelona (Spain) · Tel. (+34) 93 713 24 44 · Fax. (+34) 93 713 20 58
comercial@napoleon-armengol.com · www.napoleon-armengol.com



OBSERVACIONES

REMITIDO POR:

FECHA ALBARÁN	Nº ALBARÁN	CÓDIGO CLIENTE	Nº PEDIDO	Nº DE PROVEEDOR

CÓDIGO ARTÍCULO	CONCEPTO	U.M.	CANTIDAD	Nº U.E.

ORDERS

When placing orders, you must take into account the standardized content of our packaging as stated in the general catalog and price list. All orders whose net value exceeds €50 will be considered firmly.

SHIPPING

The merchandise sent to Freight Paid will be sent by the means chosen by NAPOLEÓN ARMENGOL, SL, any other means designated by the applicant will be sent to Freight Due.

PACKAGING COST

EUR pallet = current rate - Special pallet = current rate

TRANSPORTATION INCIDENTS

In the case of non-conformities attributable to transport (deterioration of material, delivery of incomplete shipments, etc.), the recipient of the merchandise must record the incident on the receipt or receipt from the carrier and send it to us within a maximum of 48 hours. If, on the other hand, the conformity shipment has been accepted and the incident is detected later, ARMENGOL cannot be responsible for the payment of the material for non-conformities attributable to transport.

RETURNS

Returns of materials will not be accepted after 180 days from the date of delivery to the customer's facilities. Returns of materials with incomplete packaging will not be accepted.

Returns of materials delivered directly to the site will not be accepted.

Returns of discontinued, special or slow-moving materials will not be accepted. Those not included in this price list will be considered special or discontinued materials.

Returns will not be accepted without prior written acceptance from the ARMENGOL Commercial Department.

Any return for reasons not attributable to ARMENGOL will suffer a minimum depreciation of 15% on the value of the material at the time of sale.

The return of the material implies, on the part of the client, acceptance of the conditions detailed here.

TAXES

Not included in the prices.

JURISDICTION

The competent courts for any divergence will be the courts of Barcelona.

CIVIL LIABILITY

Civil liability for our products expires one year after their supply, provided that they have been handled correctly. ARMENGOL declines all responsibility derived from the improper use of its products.

* Conditions subject to rate modification.

Glossary

when
a connect
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bridge etc conn
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ELECTROGALVANIZED RIGID TUBE SYSTEM

RIGID TUBE SYSTEM

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
7	010TARM016	D16 ARMET EG RIGID TUBE	843517900001	BUNDLE	51	m	0,389
7	010TARM020	D20 ARMET EG RIGID TUBE	8435179000018	BUNDLE	30	m	0,487
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7	010TARM050	D50 ARMET EG RIGID TUBE	8435179000056	BUNDLE	15	m	1,714
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ELECTROGALVANIZED RIGID TUBE SYSTEM

RIGID TUBE SYSTEM

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
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11	020MACM032	M32 EG COUPLING SLEEVE	8435179000810	BOX	25	u	0,104
11	020MACM040	M40 EG COUPLING SLEEVE	8435179000827	BOX	25	u	0,142
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13	020CRAM020	D20 ARMET AL ELBOW	8435179000506	BOX	25	u	0,093
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13	020CRAM032	D32 ARMET AL ELBOW	8435179000520	BOX	8	u	0,295
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13	020CRRM016	M16x1.5 ROS AL ELBOW	8435179000650	BOX	25	u	0,044
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13	020CRRM025	M25x1.5 ROS AL ELBOW	8435179000674	BOX	20	u	0,140
13	020CRRM032	M32x1.5 ROS AL ELBOW	8435179000681	BOX	8	u	0,295
13	020CRRM040	M40x1.5 ROS AL ELBOW	8435179000698	BOX	8	u	0,224
13	020CRRM050	M50x1.5 ROS AL ELBOW	8435179000704	BOX	4	u	0,360
14	020TRAM016	D16 ARMET AL TEE	8435179001060	BOX	15	u	0,073
14	020TRAM020	D20 ARMET AL TEE	8435179001077	BOX	18	u	0,127
14	020TRAM025	D25 ARMET AL TEE	8435179001084	BOX	10	u	0,221
14	020TRAM032	D32 ARMET AL TEE	8435179001091	BOX	4	u	0,920
14	020TRAM040	D40 ARMET AL TEE	8435179001107	BOX	4	u	0,688
14	020TRAM050	D50 ARMET AL TEE	8435179001114	BOX	2	u	1,155
14	020TRRM016	M16x1.5 ROS AL TEE	8435179001121	BOX	15	u	0,073
14	020TRRM020	M20x1.5 ROS AL TEE	8435179001138	BOX	18	u	0,127
14	020TRRM025	M25x1.5 ROS AL TEE	8435179001145	BOX	10	u	0,221
14	020TRRM032	M32x1.5 ROS AL TEE	8435179001152	BOX	4	u	0,920
14	020TRRM040	M40x1.5 ROS AL TEE	8435179001169	BOX	4	u	0,688
14	020TRRM050	M50x1.5 ROS AL TEE	8435179001176	BOX	2	u	1,155
15	020MCDM016	D16 EXPANSION COMPENSATOR SLEEVE	8435179010840	BOX	5	u	0,100
15	020MCDM020	D20 EXPANSION COMPENSATOR SLEEVE	8435179010857	BOX	5	u	0,140
15	020MCDM025	D25 EXPANSION COMPENSATOR SLEEVE	8435179010864	BOX	5	u	0,170

ELECTROGALVANIZED RIGID TUBE SYSTEM

RIGID TUBE SYSTEM

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
15	020MCDM032	D32 EXPANSION COMPENSATOR SLEEVE	8435179010871	BOX	2	u	0,210
15	020MCDM040	D40 EXPANSION COMPENSATOR SLEEVE	8435179010888	BOX	2	u	0,250
15	020MCDM050	D50 EXPANSION COMPENSATOR SLEEVE	8435179010895	BOX	1	u	0,290
15	020GDPM016	DP D16 EG CLAMP	8435179000711	BOX	150	m	0,009
15	020GDPM020	DP D20 EG CLAMP	8435179000728	BOX	250	m	0,011
15	020GDPM025	DP D25 EG CLAMP	8435179000735	BOX	200	m	0,014
15	020GDPM032	DP D32 EG CLAMP	8435179000742	BOX	150	m	0,017
15	020GDPM040	DP D40 EG CLAMP	8435179000759	BOX	100	m	0,025
15	020GDPM050	DP D50 EG CLAMP	8435179000766	BOX	50	m	0,030
15	020GDPM063	DP D63 EG CLAMP	8435179000773	BOX	50	m	0,037

HOT DIP GALVANIZED RIGID TUBE SYSTEM

RIGID TUBE SYSTEM

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
17	010TARMG16	D16 ARMET HD RIGID TUBE	8435179008076	BUNDLE	51	m	0,448
17	010TARMG20	D20 ARMET HD RIGID TUBE	8435179008083	BUNDLE	30	m	0,565
17	010TARMG25	D25 ARMET HD RIGID TUBE	8435179008090	BUNDLE	30	m	0,704
17	010TARMG32	D32 ARMET HD RIGID TUBE	8435179008106	BUNDLE	21	m	1,083
17	010TARMG40	D40 ARMET HD RIGID TUBE	8435179008113	BUNDLE	15	m	1,353
17	010TARMG50	D50 ARMET HD RIGID TUBE	8435179008120	BUNDLE	15	m	1,969
17	010TARMG63	D63 ARMET HD RIGID TUBE	8435179008137	BUNDLE	9	m	2,670
17	010TROMG16	M16x1.5 ROS HD RIGID TUBE	8435179007864	BUNDLE	51	m	0,532
17	010TROMG20	M20x1.5 ROS HD RIGID TUBE	8435179007871	BUNDLE	30	m	0,672
17	010TROMG25	M25x1.5 ROS HD RIGID TUBE	8435179007888	BUNDLE	30	m	0,813
17	010TROMG32	M32x1.5 ROS HD RIGID TUBE	8435179007895	BUNDLE	21	m	1,217
17	010TROMG40	M40x1.5 ROS HD RIGID TUBE	8435179007901	BUNDLE	15	m	1,554
17	010TROMG50	M50x1.5 ROS HD RIGID TUBE	8435179007918	BUNDLE	15	m	1,969
17	010TROMG63	M63x1.5 ROS HD RIGID TUBE	8435179007925	BUNDLE	9	m	3,018
18	020CARMG16	D16 ARMET HD 90° CURVE	8435179008144	BUNDLE	10	u	0,130
18	020CARMG20	D20 ARMET HD 90° CURVE	8435179008151	BUNDLE	10	u	0,181
18	020CARMG25	D25 ARMET HD 90° CURVE	8435179008168	BUNDLE	10	u	0,225
18	020CARMG32	D32 ARMET HD 90° CURVE	8435179008175	BUNDLE	10	u	0,411
18	020CARMG40	D40 ARMET HD 90° CURVE	8435179008182	BUNDLE	5	u	0,633
18	020CARMG50	D50 ARMET HD 90° CURVE	8435179008199	BUNDLE	5	u	1,197
18	020CARMG63	D63 ARMET HD 90° CURVE	8435179008205	BUNDLE	3	u	2,705
18	020CROMG16	M16x1.5 ROS HD 90° CURVE	8435179007932	BUNDLE	10	u	0,154
18	020CROMG20	M20x1.5 ROS HD 90° CURVE	8435179007949	BUNDLE	10	u	0,215
18	020CROMG25	M25x1.5 ROS HD 90° CURVE	8435179007956	BUNDLE	10	u	0,269
18	020CROMG32	M32x1.5 ROS HD 90° CURVE	8435179007963	BUNDLE	10	u	0,478
18	020CROMG40	M40x1.5 ROS HD 90° CURVE	8435179007970	BUNDLE	5	u	0,739
18	020CROMG50	M50x1.5 ROS HD 90° CURVE	8435179007987	BUNDLE	5	u	1,197
18	020CROMG63	M63x1.5 ROS HD 90° CURVE	8435179007994	BUNDLE	3	u	3,058
19	020MARMG16	D16 ARMET HD SLEEVE	8435179008212	BOX	100	u	0,024
19	020MARMG20	D20 ARMET HD SLEEVE	8435179008229	BOX	100	u	0,033
19	020MARMG25	D25 ARMET HD SLEEVE	8435179008236	BOX	60	u	0,044
19	020MARMG32	D32 ARMET HD SLEEVE	8435179008243	BOX	30	u	0,100
19	020MARMG40	D40 ARMET HD SLEEVE	8435179008250	BOX	25	u	0,133
19	020MARMG50	D50 ARMET HD SLEEVE	8435179008267	BOX	12	u	0,208

HOT DIP GALVANIZED RIGID TUBE SYSTEM

RIGID TUBE SYSTEM

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
19	020MARMG63	D63 ARMET HD SLEEVE	8435179008274	BOX	6	u	0,300
19	020MROMG16	M16x1.5 ROS HD SLEEVE	8435179008007	BOX	50	u	0,023
19	020MROMG20	M20x1.5 ROS HD SLEEVE	8435179008014	BOX	50	u	0,034
19	020MROMG25	M25x1.5 ROS HD SLEEVE	8435179008021	BOX	40	u	0,046
19	020MROMG32	M32x1.5 ROS HD SLEEVE	8435179008038	BOX	40	u	0,067
19	020MROMG40	M40x1.5 ROS HD SLEEVE	8435179008045	BOX	25	u	0,080
19	020MROMG50	M50x1.5 ROS HD SLEEVE	8435179008052	BOX	10	u	0,134
19	020MROMG63	M63x1.5 ROS HD SLEEVE	8435179008069	BOX	9	u	0,171

STAINLESS STEEL RIGID TUBE SYSTEM

RIGID TUBE SYSTEM

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
21	060TARM120	D20 ARMET SS AISI 304 RIGID TUBE	8435179008922	BUNDLE	30	m	0,476
21	060TARM125	D25 ARMET SS AISI 304 RIGID TUBE	8435179008939	BUNDLE	30	m	0,601
21	060TARM132	D32 ARMET SS AISI 304 RIGID TUBE	8435179008946	BUNDLE	21	m	0,925
21	060TARM140	D40 ARMET SS AISI 304 RIGID TUBE	8435179008953	BUNDLE	15	m	1,160
21	060TARM150	D50 ARMET SS AISI 304 RIGID TUBE	8435179008960	BUNDLE	15	m	1,822
21	061CARM120	D20 ARMET SS AISI 304 90° CURVE	8435179008977	BUNDLE	5	u	0,110
21	061CARM125	D25 ARMET SS AISI 304 90° CURVE	8435179008984	BUNDLE	5	u	0,156
21	061CARM132	D32 ARMET SS AISI 304 90° CURVE	8435179008991	BUNDLE	5	u	0,221
21	061CARM140	D40 ARMET SS AISI 304 90° CURVE	8435179009004	BUNDLE	5	u	0,596
21	061CARM150	D50 ARMET SS AISI 304 90° CURVE	8435179009011	BUNDLE	1	u	1,023
22	061MASM120	D20 ARMET SS AISI 304 STANDARD SLEEVE IP-67	8435179010963	BOX	5	u	0,090
22	061MASM125	D25 ARMET SS AISI 304 STANDARD SLEEVE IP-67	8435179010970	BOX	5	u	0,120
22	061MASM132	D32 ARMET SS AISI 304 STANDARD SLEEVE IP-67	8435179010987	BOX	5	u	0,150
22	061MASM140	D40 ARMET SS AISI 304 SLEEVE IP-67	8435179010994	BOX	5	u	0,180
22	061MASM150	D50 ARMET SS AISI 304 STANDARD SLEEVE IP-67	8435179011007	BOX	1	u	0,210
22	061MACM120	M20 SS AISI 304 COUPLING SLEEVE	8435179009073	BOX	5	u	0,039
22	061MACM125	M25 SS AISI 304 COUPLING SLEEVE	8435179009080	BOX	5	u	0,058
22	061MACM132	M32 SS AISI 304 COUPLING SLEEVE	8435179009097	BOX	5	u	0,076
22	061MACM140	M40 SS AISI 304 COUPLING SLEEVE	8435179009103	BOX	5	u	0,099
22	061MACM150	M50 SS AISI 304 COUPLING SLEEVE	8435179009110	BOX	1	u	0,099
23	061ABRM120	D20 SS AISI 304 FIXING CLAMP	8435179009127	BOX	75	u	0,025
23	061ABRM125	D25 SS AISI 304 FIXING CLAMP	8435179009134	BOX	50	u	0,035
23	061ABRM134	D32-40 SS AISI 304 FIXING CLAMP	8435179009141	BOX	20	u	0,035
23	061ABRM150	D50 SS AISI 304 FIXING CLAMP	8435179009165	BOX	20	u	0,054

PVC RIGID TUBE SYSTEM

RIGID TUBE SYSTEM

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
25	070TAMPV16	D16 ARMET PVC RIGID TUBE	8435179009271	BUNDLE	57	m	0,107
25	070TAMPV20	D20 ARMET PVC RIGID TUBE	8435179009288	BUNDLE	57	m	0,136
25	070TAMPV25	D25 ARMET PVC RIGID TUBE	8435179009295	BUNDLE	57	m	0,193
25	070TAMPV32	D32 ARMET PVC RIGID TUBE	8435179009301	BUNDLE	30	m	0,259
25	070TAMPV40	D40 ARMET PVC RIGID TUBE	8435179009318	BUNDLE	30	m	0,345
25	070TAMPV50	D50 ARMET PVC RIGID TUBE	8435179009325	BUNDLE	15	m	0,532
25	070TAMPV63	D63 ARMET PVC RIGID TUBE	8435179009332	BUNDLE	15	m	0,626
25	071CAMPV16	D16 ARMET PVC 90° CURVE	8435179009417	BAG	5	u	0,018
25	071CAMPV20	D20 ARMET PVC 90° CURVE	8435179009424	BAG	5	u	0,013
25	071CAMPV25	D25 ARMET PVC 90° CURVE	8435179009431	BAG	5	u	0,022
25	071CAMPV32	D32 ARMET PVC 90° CURVE	8435179009448	BAG	5	u	0,044
25	071CAMPV40	D40 ARMET PVC 90° CURVE	8435179009455	BAG	3	u	0,900
25	071CAMPV50	D50 ARMET PVC 90° CURVE	8435179009462	BAG	3	u	0,262
25	071CAMPV63	D63 ARMET PVC 90° CURVE	8435179009479	BAG	3	u	0,379
26	071CFMPV16	D16 ARMET PVC FLEXIBLE CURVE	8435179009561	BAG	10	u	0,018
26	071CFMPV20	D20 ARMET PVC FLEXIBLE CURVE	8435179009578	BAG	10	u	0,022
26	071CFMPV25	D25 ARMET PVC FLEXIBLE CURVE	8435179009585	BAG	5	u	0,040
26	071CFMPV32	D32 ARMET PVC FLEXIBLE CURVE	8435179009592	BAG	5	u	0,055
26	071CFMPV40	D40 ARMET PVC FLEXIBLE CURVE	8435179009608	BAG	3	u	0,082
26	071MAMPV16	D16 ARMET PVC SLEEVE	8435179009349	BAG	19	u	0,004
26	071MAMPV20	D20 ARMET PVC SLEEVE	8435179009356	BAG	19	u	0,005
26	071MAMPV25	D25 ARMET PVC SLEEVE	8435179009363	BAG	19	u	0,006
26	071MAMPV32	D32 ARMET PVC SLEEVE	8435179009370	BAG	10	u	0,011
26	071MAMPV40	D40 ARMET PVC SLEEVE	8435179009387	BAG	10	u	0,025
26	071MAMPV50	D50 ARMET PVC SLEEVE	8435179009394	BAG	5	u	0,031
26	071MAMPV63	D63 ARMET PVC SLEEVE	8435179009400	BAG	5	u	0,037
27	071CRAPV16	D16 ARMET PVC ELBOW	8435179009486	BAG	25	u	0,009
27	071CRAPV20	D20 ARMET PVC ELBOW	8435179009493	BAG	25	u	0,016
27	071CRAPV25	D25 ARMET PVC ELBOW	8435179009509	BAG	25	u	0,025
27	071CRAPV32	D32 ARMET PVC ELBOW	8435179009516	BAG	15	u	0,032
27	071TRAPV16	D16 ARMET PVC TEE	8435179009523	BAG	25	u	0,011
27	071TRAPV20	D16 ARMET PVC TEE	8435179009530	BAG	25	u	0,016
27	071TRAPV25	D16 ARMET PVC TEE	8435179009547	BAG	25	u	0,034
27	071TRAPV32	D16 ARMET PVC TEE	8435179009554	BAG	15	u	0,085

LH RIGID TUBE SYSTEM

RIGID TUBE SYSTEM

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
29	072TAMLH16	D16 ARMET LH RIGID TUBE	8435179008373	BUNDLE	57	m	0,106
29	072TAMLH20	D20 ARMET LH RIGID TUBE	8435179008380	BUNDLE	57	m	0,135
29	072TAMLH25	D20 ARMET LH RIGID TUBE	8435179008397	BUNDLE	57	m	0,193
29	072TAMLH32	D32 ARMET LH RIGID TUBE	8435179008403	BUNDLE	30	m	0,259
29	072TAMLH40	D40 ARMET LH RIGID TUBE	8435179008410	BUNDLE	30	m	0,345
29	072TAMLH50	D50 ARMET LH RIGID TUBE	8435179008427	BUNDLE	15	m	0,532
29	072TAMLH63	D63 ARMET LH RIGID TUBE	8435179008434	BUNDLE	15	m	0,626
29	073CAMLH16	D16 ARMET LH 90° CURVE	8435179008519	BAG	5	u	0,018

LH RIGID TUBE SYSTEM

RIGID TUBE SYSTEM

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
29	073CAMLH20	D20 ARMET LH 90° CURVE	8435179008526	BAG	5	u	0,013
29	073CAMLH25	D25 ARMET LH 90° CURVE	8435179008533	BAG	5	u	0,023
29	073CAMLH32	D32 ARMET LH 90° CURVE	8435179008540	BAG	5	u	0,043
29	073CAMLH40	D40 ARMET LH 90° CURVE	8435179008557	BAG	3	u	0,141
29	073CAMLH50	D50 ARMET LH 90° CURVE	8435179008564	BAG	3	u	0,262
29	073CAMLH63	D63 ARMET LH 90° CURVE	8435179008571	BAG	3	u	0,379
30	073CFMLH16	D16 ARMET LH FLEXIBLE CURVE	8435179008762	BUNDLE	20	u	0,019
30	073CFMLH20	D20 ARMET LH FLEXIBLE CURVE	8435179008779	BUNDLE	10	u	0,022
30	073CFMLH25	D25 ARMET LH FLEXIBLE CURVE	8435179008786	BUNDLE	10	u	0,041
30	073CFMLH32	D32 ARMET LH FLEXIBLE CURVE	8435179008793	BUNDLE	5	u	0,055
30	073CFMLH40	D40 ARMET LH FLEXIBLE CURVE	8435179008809	BUNDLE	5	u	0,082
30	073MAMLH16	D16 ARMET LH SLEEVE	8435179008441	BAG	19	u	0,003
30	073MAMLH20	D20 ARMET LH SLEEVE	8435179008458	BAG	19	u	0,005
30	073MAMLH25	D25 ARMET LH SLEEVE	8435179008465	BAG	19	u	0,006
30	073MAMLH32	D32 ARMET LH SLEEVE	8435179008472	BAG	10	u	0,011
30	073MAMLH40	D40 ARMET LH SLEEVE	8435179008489	BAG	10	u	0,024
30	073MAMLH50	D50 ARMET LH SLEEVE	8435179008496	BAG	5	u	0,031
30	073MAMLH63	D63 ARMET LH SLEEVE	8435179008502	BAG	5	u	0,035

THREADING TOOLS

RIGID TUBE SYSTEM

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
32	030PCM1620	D16-20 BEARING HOLDER 45x16	8435179001725	UNIT	1	u	-
32	030PCM0025	D25 BEARING HOLDER 55x16	8435179001671	UNIT	1	u	-
32	030PCM0032	D32 BEARING HOLDER 65x18	8435179001688	UNIT	1	u	-
32	030PCM0040	D40 BEARING HOLDER 75x20	8435179001695	UNIT	1	u	-
32	030PCM0050	D50 BEARING HOLDER 90x22	8435179001701	UNIT	1	u	-
32	030PCM0063	D63 BEARING HOLDER 105x22	8435179001718	UNIT	1	u	-
32	030COJM016	BEARING 45x14 M16x1.5 6g	8435179001466	UNIT	1	u	-
32	030COJM020	BEARING 45x14 M20x1.5 6g	8435179001473	UNIT	1	u	-
32	030COJM025	BEARING 55x16 M25x1.5 6g	8435179001480	UNIT	1	u	-
32	030COJM032	BEARING 65x18 M32x1.5 6g	8435179001497	UNIT	1	u	-
32	030COJM040	BEARING 75x20 M40x1.5 6g	8435179001503	UNIT	1	u	-
32	030COJM050	BEARING 90x22 M50x1.5 6g	8435179001510	UNIT	1	u	-
32	030COJM063	BEARING 105x22 M63x1.5 6g	8435179001527	UNIT	1	u	-

POLYAMIDA FLEXIBLE TUBE SYSTEM

FLEXIBLE TUBE SYSTEM

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
35	090T1GDN07	DN7.5 PA6 GRAY FLEXIBLE TUBE	8435179012653	ROLLO	100	m	0,021
35	090T1GDN10	DN10 PA6 GRAY FLEXIBLE TUBE	8435179012677	ROLLO	100	m	0,028
35	090T1GDN12	DN12 PA6 GRAY FLEXIBLE TUBE	8435179012691	ROLLO	50	m	0,037
35	090T1GDN14	DN14 PA6 GRAY FLEXIBLE TUBE	8435179012714	ROLLO	50	m	0,050
35	090T1GDN17	DN17 PA6 GRAY FLEXIBLE TUBE	8435179012738	ROLLO	50	m	0,055
35	090T1GDN23	DN23 PA6 GRAY FLEXIBLE TUBE	8435179012752	ROLLO	50	m	0,090
35	090T1GDN29	DN29 PA6 GRAY FLEXIBLE TUBE	8435179012776	ROLLO	25	m	0,109
35	090T1GDN36	DN36 PA6 GRAY FLEXIBLE TUBE	8435179012790	ROLLO	25	m	0,143
35	090T1GDN48	DN48 PA6 GRAY FLEXIBLE TUBE	8435179012813	ROLLO	25	m	0,185
35	090T1NDN07	DN7.5 PA6 BLACK FLEXIBLE TUBE	8435179012660	ROLLO	100	m	0,021
35	090T1NDN10	DN10 PA6 BLACK FLEXIBLE TUBE	8435179012684	ROLLO	100	m	0,028
35	090T1NDN12	DN12 PA6 BLACK FLEXIBLE TUBE	8435179012707	ROLLO	50	m	0,037
35	090T1NDN14	DN14 PA6 BLACK FLEXIBLE TUBE	8435179012721	ROLLO	50	m	0,050
35	090T1NDN17	DN17 PA6 BLACK FLEXIBLE TUBE	8435179012745	ROLLO	50	m	0,055
35	090T1NDN23	DN23 PA6 BLACK FLEXIBLE TUBE	8435179012769	ROLLO	50	m	0,090
35	090T1NDN29	DN29 PA6 BLACK FLEXIBLE TUBE	8435179012783	ROLLO	25	m	0,109
35	090T1NDN36	DN36 PA6 BLACK FLEXIBLE TUBE	8435179012806	ROLLO	25	m	0,143
35	090T1NDN48	DN48 PA6 BLACK FLEXIBLE TUBE	8435179012820	ROLLO	25	m	0,185
36	091RG07M12	M12x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN7.5	8435179013018	BAG	100	u	0,005
36	091RG10M12	M12x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN10	8435179013032	BAG	100	u	0,006
36	091RG10M16	M16x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN10	8435179013056	BAG	100	u	0,007
36	091RG12M16	M16x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN12	8435179013070	BAG	100	u	0,009
36	091RG14M16	M16x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN14	8435179013094	BAG	100	u	0,007
36	091RG10M20	M20x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN10	8435179013117	BAG	100	u	0,010
36	091RG12M20	M20x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN12	8435179013131	BAG	100	u	0,008
36	091RG14M20	M20x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN14	8435179013155	BAG	100	u	0,012
36	091RG17M20	M20x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN17	8435179013179	BAG	100	u	0,012
36	091RG17M25	M25x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN17	8435179013193	BAG	50	u	0,016
36	091RG23M25	M25x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN23	8435179013216	BAG	50	u	0,045
36	091RG23M32	M32x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN23	8435179013230	BAG	25	u	0,030
36	091RG29M32	M32x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN29	8435179013254	BAG	25	u	0,033
36	091RG29M40	M40x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN29	8435179013278	BAG	10	u	0,055
36	091RG36M40	M40x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN36	8435179013292	BAG	10	u	0,038
36	091RG36M50	M50x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN36	8435179013315	BAG	5	u	0,066
36	091RG48M50	M50x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN48	8435179013339	BAG	5	u	0,028
36	091RG48M63	M63x1.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE DN48	8435179013353	BAG	5	u	0,060
36	091RN07M12	M12x1.5 PA6 FITTING FOR BLACK FLEXIBLE TUBE DN7.5	8435179013025	BAG	100	u	0,005
36	091RN10M12	M12x1.5 PA6 FITTING FOR BLACK FLEXIBLE TUBE DN10	8435179013049	BAG	100	u	0,005
36	091RN10M16	M16x1.5 PA6 FITTING FOR BLACK FLEXIBLE TUBE DN10	8435179013063	BAG	100	u	0,007
36	091RN12M16	M16x1.5 PA6 FITTING FOR BLACK FLEXIBLE TUBE DN12	8435179013087	BAG	100	u	0,012
36	091RN14M16	M16x1.5 PA6 FITTING FOR BLACK FLEXIBLE TUBE DN14	8435179013100	BAG	100	u	0,007
36	091RN10M20	M20x1.5 PA6 FITTING FOR BLACK FLEXIBLE TUBE DN10	8435179013124	BAG	100	u	0,011
36	091RN12M20	M20x1.5 PA6 FITTING FOR BLACK FLEXIBLE TUBE DN12	8435179013148	BAG	100	u	0,008
36	091RN14M20	M20x1.5 PA6 FITTING FOR BLACK FLEXIBLE TUBE DN14	8435179013162	BAG	100	u	0,012
36	091RN17M20	M20x1.5 PA6 FITTING FOR BLACK FLEXIBLE TUBE DN17	8435179013186	BAG	100	u	0,012
36	091RN17M25	M25x1.5 PA6 FITTING FOR BLACK FLEXIBLE TUBE DN17	8435179013209	BAG	50	u	0,016
36	091RN23M25	M25x1.5 PA6 FITTING FOR BLACK FLEXIBLE TUBE DN23	8435179013223	BAG	50	u	0,018
36	091RN23M32	M32x1.5 PA6 FITTING FOR BLACK FLEXIBLE TUBE DN23	8435179013247	BAG	25	u	0,030
36	091RN29M32	M32x1.5 PA6 FITTING FOR BLACK FLEXIBLE TUBE DN29	8435179013261	BAG	25	u	0,035
36	091RN29M40	M40x1.5 PA6 FITTING FOR BLACK FLEXIBLE TUBE DN29	8435179013285	BAG	10	u	0,055
36	091RN36M40	M40x1.5 PA6 FITTING FOR BLACK FLEXIBLE TUBE DN36	8435179013308	BAG	10	u	0,055

POLYAMIDA FLEXIBLE TUBE SYSTEM

FLEXIBLE TUBE SYSTEM

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
36	091RN36M50	DN36 PA6 FITTING FOR BLACK FLEXIBLE TUBE M50x1.5	8435179013322	BAG	5	u	0,030
36	091RN48M50	DN48 PA6 FITTING FOR BLACK FLEXIBLE TUBE M50x1.5	8435179013346	BAG	5	u	0,035
36	091RN48M63	DN48 PA6 FITTING FOR BLACK FLEXIBLE TUBE M63x1.5	8435179013360	BAG	5	u	0,055
36	091RN36M40	DN36 PA6 FITTING FOR BLACK FLEXIBLE TUBE M40x1.5	8435179013308	BAG	10	u	0,055
36	091RN36M50	DN36 PA6 FITTING FOR BLACK FLEXIBLE TUBE M50x1.5	8435179013322	BAG	5	u	0,066
36	091RN48M50	DN48 PA6 FITTING FOR BLACK FLEXIBLE TUBE M50x1.5	8435179013346	BAG	5	u	0,068
36	091RN48M63	DN48 PA6 FITTING FOR BLACK FLEXIBLE TUBE M63x1.5	8435179013360	BAG	5	u	0,075
37	091RG07P07	DN7.5 PA6 FITTING FOR GRAY FLEXIBLE TUBE PG7	8435179012837	BAG	100	u	0,005
37	091RG10P09	DN10 PA6 FITTING FOR GRAY FLEXIBLE TUBE PG9	8435179012851	BAG	100	u	0,007
37	091RG12P11	DN12 PA6 FITTING FOR GRAY FLEXIBLE TUBE PG11	8435179012875	BAG	100	u	0,009
37	091RG14P13	DN14 PA6 FITTING FOR GRAY FLEXIBLE TUBE PG13.5	8435179012899	BAG	100	u	0,012
37	091RG17P16	DN17 PA6 FITTING FOR GRAY FLEXIBLE TUBE PG16	8435179012912	BAG	100	u	0,012
37	091RG23P21	DN23 PA6 FITTING FOR GRAY FLEXIBLE TUBE PG21	8435179012936	BAG	50	u	0,021
37	091RG29P29	DN29 PA6 FITTING FOR GRAY FLEXIBLE TUBE PG29	8435179012950	BAG	25	u	0,035
37	091RG36P36	DN36 PA6 FITTING FOR GRAY FLEXIBLE TUBE PG36	8435179012974	BAG	10	u	0,054
37	091RG48P48	DN48 PA6 FITTING FOR GRAY FLEXIBLE PIPE PG48	8435179012998	BAG	5	u	0,071
37	091RN07P07	DN7.5 PA6 FITTING FOR BLACK FLEXIBLE TUBE PG7	8435179012844	BAG	100	u	0,005
37	091RN10P09	DN10 PA6 FITTING FOR BLACK FLEXIBLE TUBE PG9	8435179012868	BAG	100	u	0,007
37	091RN12P11	DN12 PA6 FITTING FOR BLACK FLEXIBLE TUBE PG11	8435179012882	BAG	100	u	0,009
37	091RN14P13	DN14 PA6 FITTING FOR BLACK FLEXIBLE TUBE PG13.5	8435179012905	BAG	100	u	0,012
37	091RN17P16	DN17 PA6 FITTING FOR BLACK FLEXIBLE TUBE PG16	8435179012929	BAG	100	u	0,013
37	091RN23P21	DN23 PA6 FITTING FOR BLACK FLEXIBLE TUBE PG21	8435179012943	BAG	50	u	0,024
37	091RN29P29	DN29 PA6 FITTING FOR BLACK FLEXIBLE TUBE PG29	8435179012967	BAG	25	u	0,035
37	091RN36P36	DN36 PA6 FITTING FOR BLACK FLEXIBLE TUBE PG36	8435179012981	BAG	10	u	0,054
37	091RN48P48	DN48 PA6 FITTING FOR BLACK FLEXIBLE TUBE PG48	8435179013001	BAG	5	u	0,071
38	091C1GDN07	PA6 CLIP FOR GRAY FLEXIBLE TUBE DN7.5	8435179013377	BAG	100	u	0,002
38	091C1GDN10	PA6 CLIP FOR GRAY FLEXIBLE TUBE DN10	8435179013391	BAG	100	u	0,002
38	091C1GDN12	PA6 CLIP FOR GRAY FLEXIBLE TUBE DN12	8435179013414	BAG	100	u	0,003
38	091C1GDN14	PA6 CLIP FOR GRAY FLEXIBLE TUBE DN14	8435179013438	BAG	100	u	0,003
38	091C1GDN17	PA6 CLIP FOR GRAY FLEXIBLE TUBE DN17	8435179013452	BAG	100	u	0,006
38	091C1GDN23	PA6 CLIP FOR GRAY FLEXIBLE TUBE DN23	8435179013476	BAG	50	u	0,008
38	091C1GDN29	PA6 CLIP FOR GRAY FLEXIBLE TUBE DN29	8435179013490	BAG	25	u	0,013
38	091C1GDN36	PA6 CLIP FOR GRAY FLEXIBLE TUBE DN36	8435179013513	BAG	10	u	0,019
38	091C1GDN48	PA6 CLIP FOR GRAY FLEXIBLE TUBE DN48	8435179013537	BAG	5	u	0,028
38	091C1NDN07	PA6 CLIP FOR BLACK FLEXIBLE TUBE DN7.5	8435179013384	BAG	100	u	0,002
38	091C1NDN10	PA6 CLIP FOR BLACK FLEXIBLE TUBE DN10	8435179013407	BAG	100	u	0,002
38	091C1NDN12	PA6 CLIP FOR BLACK FLEXIBLE TUBE DN12	8435179013421	BAG	100	u	0,003
38	091C1NDN14	PA6 CLIP FOR BLACK FLEXIBLE TUBE DN14	8435179013445	BAG	100	u	0,003
38	091C1NDN17	PA6 CLIP FOR BLACK FLEXIBLE TUBE DN17	8435179013469	BAG	100	u	0,006
38	091C1NDN23	PA6 CLIP FOR BLACK FLEXIBLE TUBE DN23	8435179013483	BAG	50	u	0,008
38	091C1NDN29	PA6 CLIP FOR BLACK FLEXIBLE TUBE DN29	8435179013506	BAG	25	u	0,013
38	091C1NDN36	PA6 CLIP FOR BLACK FLEXIBLE TUBE DN36	8435179013520	BAG	10	u	0,019
38	091C1NDN48	PA6 CLIP FOR BLACK FLEXIBLE TUBE DN48	8435179013544	BAG	5	u	0,025

POLYAMIDE CABLE GLAND

CABLE GLAND

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
41	100P1LM120	M12x1.5 PA6 LIGHT GRAY CABLE GLAND IP-68 (3-6.5)	8435179011328	BAG	100	u	0,004
41	100P1LM160	M16x1.5 PA6 LIGHT GRAY CABLE GLAND IP-68 (4-8)	8435179011359	BAG	100	u	0,006
41	100P1LM161	M16x1.5 PA6 LIGHT GRAY CABLE GLAND IP-68 (5-10)	8435179011380	BAG	100	u	0,008
41	100P1LM200	M20x1.5 PA6 LIGHT GRAY CABLE GLAND IP-68 (6-12)	8435179011410	BAG	100	u	0,010
41	100P1LM201	M20x1.5 PA6 LIGHT GRAY CABLE GLAND IP-68 (10-14)	8435179011441	BAG	100	u	0,013
41	100P1LM250	M25x1.5 PA6 LIGHT GRAY CABLE GLAND IP-68 (13-18)	8435179011472	BAG	50	u	0,021
41	100P1LM320	M32x1.5 PA6 LIGHT GRAY CABLE GLAND IP-68 (18-25)	8435179011502	BAG	25	u	0,036
41	100P1LM400	M40x1.5 PA6 LIGHT GRAY CABLE GLAND IP-68 (22-32)	8435179011533	BAG	10	u	0,066
41	100P1LM500	M50x1.5 PA6 LIGHT GRAY CABLE GLAND IP-68 (30-38)	8435179011564	BAG	5	u	0,088
41	100P1LM630	M63x1.5 PA6 LIGHT GRAY CABLE GLAND IP-68 (34-44)	8435179011595	BAG	5	u	0,098
41	100P1LP070	PG7 PA6 LIGHT GRAY CABLE GLAND IP-68 (3-6.5)	8435179011021	BAG	100	u	0,004
41	100P1LP090	PG9 PA6 LIGHT GRAY CABLE GLAND IP-68 (4-8)	8435179011052	BAG	100	u	0,006
41	100P1LP110	PG11 PA6 LIGHT GRAY CABLE GLAND IP-68 (5-10)	8435179011083	BAG	100	u	0,008
41	100P1LP130	PG13.5 PA6 LIGHT GRAY CABLE GLAND IP-68 (6-12)	8435179011113	BAG	100	u	0,009
41	100P1LP160	PG16 PA6 LIGHT GRAY CABLE GLAND IP-68 (10-14)	8435179011144	BAG	100	u	0,012
41	100P1LP210	PG21 PA6 LIGHT GRAY CABLE GLAND IP-68 (13-18)	8435179011175	BAG	50	u	0,020
41	100P1LP290	PG29 PA6 LIGHT GRAY CABLE GLAND IP-68 (18-25)	8435179011205	BAG	25	u	0,033
41	100P1LP360	PG36 PA6 LIGHT GRAY CABLE GLAND IP-68 (22-32)	8435179011236	BAG	10	u	0,066
41	100P1LP420	PG42 PA6 LIGHT GRAY CABLE GLAND IP-68 (30-38)	8435179011267	BAG	5	u	0,078
41	100P1LP480	PG48 PA6 LIGHT GRAY CABLE GLAND IP-68 (34-44)	8435179011298	BAG	5	u	0,089
42	100P1GM120	M12x1.5 PA6 DARK GRAY CABLE GLAND IP-68 (3-6.5)	8435179011311	BAG	100	u	0,004
42	100P1GM160	M16x1.5 PA6 DARK GRAY CABLE GLAND IP-68 (4-8)	8435179011342	BAG	100	u	0,006
42	100P1GM161	M16x1.5 PA6 DARK GRAY CABLE GLAND IP-68 (5-10)	8435179011373	BAG	100	u	0,008
42	100P1GM200	M20x1.5 PA6 DARK GRAY CABLE GLAND IP-68 (6-12)	8435179011403	BAG	100	u	0,010
42	100P1GM201	M20x1.5 PA6 DARK GRAY CABLE GLAND IP-68 (10-14)	8435179011434	BAG	100	u	0,013
42	100P1GM250	M25x1.5 PA6 DARK GRAY CABLE GLAND IP-68 (13-18)	8435179011465	BAG	50	u	0,021
42	100P1GM320	M32x1.5 PA6 DARK GRAY CABLE GLAND IP-68 (18-25)	8435179011496	BAG	25	u	0,036
42	100P1GM400	M40x1.5 PA6 DARK GRAY CABLE GLAND IP-68 (22-32)	8435179011526	BAG	10	u	0,066
42	100P1GM500	M50x1.5 PA6 DARK GRAY CABLE GLAND IP-68 (30-38)	8435179011557	BAG	5	u	0,088
42	100P1GM630	M63x1.5 PA6 DARK GRAY CABLE GLAND IP-68 (34-44)	8435179011588	BAG	5	u	0,098
42	100P1GP070	PG7 PA6 DARK GRAY CABLE GLAND IP-68 (3-6.5)	8435179011014	BAG	100	u	0,007
42	100P1GP090	PG9 PA6 DARK GRAY CABLE GLAND IP-68 (4-8)	8435179011045	BAG	100	u	0,006
42	100P1GP110	PG11 PA6 DARK GRAY CABLE GLAND IP-68 (5-10)	8435179011076	BAG	100	u	0,008
42	100P1GP130	PG13.5 PA6 DARK GRAY CABLE GLAND IP-68 (6-12)	8435179011106	BAG	100	u	0,009
42	100P1GP160	PG16 PA6 DARK GRAY CABLE GLAND IP-68 (10-14)	8435179011137	BAG	100	u	0,012
42	100P1GP210	PG21 PA6 DARK GRAY CABLE GLAND IP-68 (13-18)	8435179011168	BAG	50	u	0,020
42	100P1GP290	PG29 PA6 DARK GRAY CABLE GLAND IP-68 (18-25)	8435179011199	BAG	25	u	0,033
42	100P1GP360	PG36 PA6 DARK GRAY CABLE GLAND IP-68 (22-32)	8435179011229	BAG	10	u	0,066
42	100P1GP420	PG42 PA6 DARK GRAY CABLE GLAND IP-68 (30-38)	8435179011250	BAG	5	u	0,078
42	100P1GP480	PG48 PA6 DARK GRAY CABLE GLAND IP-68 (34-44)	8435179011281	BAG	5	u	0,089
43	100P1NM120	M12x1.5 PA6 BLACK CABLE GLAND IP-68 (3-6.5)	8435179011335	BAG	100	u	0,004
43	100P1NM160	M16x1.5 PA6 BLACK CABLE GLAND IP-68 (4-8)	8435179011366	BAG	100	u	0,006
43	100P1NM161	M16x1.5 PA6 BLACK CABLE GLAND IP-68 (5-10)	8435179011397	BAG	100	u	0,008
43	100P1NM200	M20x1.5 PA6 BLACK CABLE GLAND IP-68 (6-12)	8435179011427	BAG	100	u	0,020
43	100P1NM201	M20x1.5 PA6 BLACK CABLE GLAND IP-68 (10-14)	8435179011458	BAG	100	u	0,013
43	100P1NM250	M25x1.5 PA6 BLACK CABLE GLAND IP-68 (13-18)	8435179011489	BAG	50	u	0,021
43	100P1NM320	M32x1.5 PA6 BLACK CABLE GLAND IP-68 (18-25)	8435179011519	BAG	25	u	0,036
43	100P1NM400	M40x1.5 PA6 BLACK CABLE GLAND IP-68 (22-32)	8435179011540	BAG	10	u	0,066
43	100P1NM500	M50x1.5 PA6 BLACK CABLE GLAND IP-68 (30-38)	8435179011571	BAG	5	u	0,088
43	100P1NM630	M63x1.5 PA6 BLACK CABLE GLAND IP-68 (34-44)	8435179011601	BAG	5	u	0,098
43	100P1NP070	PG7 PA6 BLACK CABLE GLAND IP-68 (3-6.5)	8435179011038	BAG	100	u	0,007

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Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
43	100P1NP090	PG9 PA6 BLACK CABLE GLAND IP-68 (4-8)	8435179011069	BAG	100	u	0,006
43	100P1NP110	PG11 PA6 BLACK CABLE GLAND IP-68 (5-10)	8435179011090	BAG	100	u	0,008
43	100P1NP130	PG13.5 PA6 BLACK CABLE GLAND IP-68 (6-12)	8435179011120	BAG	100	u	0,009
43	100P1NP160	PG16 PA6 BLACK CABLE GLAND IP-68 (10-14)	8435179011151	BAG	100	u	0,012
43	100P1NP210	PG21 PA6 BLACK CABLE GLAND IP-68 (13-18)	8435179011182	BAG	50	u	0,020
43	100P1NP290	PG29 PA6 BLACK CABLE GLAND IP-68 (18-25)	8435179011212	BAG	25	u	0,033
43	100P1NP360	PG36 PA6 BLACK CABLE GLAND IP-68 (22-32)	8435179011243	BAG	10	u	0,066
43	100P1NP420	PG42 PA6 BLACK CABLE GLAND IP-68 (30-38)	8435179011274	BAG	5	u	0,078
43	100P1NP480	PG48 PA6 BLACK CABLE GLAND IP-68 (34-44)	8435179011304	BAG	5	u	0,089
44	100T1LM120	M12x1.5 PA6 LIGHT GRAY NUT	8435179012424	BAG	100	u	0,001
44	100T1LM160	M16x1.5 PA6 LIGHT GRAY NUT	8435179012455	BAG	100	u	0,001
44	100T1LM200	M20x1.5 PA6 LIGHT GRAY NUT	8435179012486	BAG	100	u	0,002
44	100T1LM250	M25x1.5 PA6 LIGHT GRAY NUT	8435179012516	BAG	50	u	0,003
44	100T1LM320	M32x1.5 PA6 LIGHT GRAY NUT	8435179012547	BAG	25	u	0,006
44	100T1LM400	M40x1.5 PA6 LIGHT GRAY NUT	8435179012578	BAG	10	u	0,011
44	100T1LM500	M50x1.5 PA6 LIGHT GRAY NUT	8435179012608	BAG	5	u	0,013
44	100T1LM630	M63x1.5 PA6 LIGHT GRAY NUT	8435179012639	BAG	5	u	0,018
44	100T1LP070	PG7 PA6 LIGHT GRAY NUT	8435179012127	BAG	100	u	0,001
44	100T1LP090	PG9 PA6 LIGHT GRAY NUT	8435179012158	BAG	100	u	0,001
44	100T1LP110	PG11 PA6 LIGHT GRAY NUT	8435179012189	BAG	100	u	0,002
44	100T1LP130	PG13.5 PA6 LIGHT GRAY NUT	8435179012219	BAG	100	u	0,002
44	100T1LP160	PG16 PA6 NUT LIGHT GRAY	8435179012240	BAG	100	u	0,003
44	100T1LP210	PG21 PA6 LIGHT GRAY NUT	8435179012271	BAG	50	u	0,005
44	100T1LP290	PG29 PA6 LIGHT GRAY NUT	8435179012301	BAG	25	u	0,006
44	100T1LP360	PG36 PA6 LIGHT GRAY NUT	8435179012332	BAG	10	u	0,014
44	100T1LP420	PG42 PA6 LIGHT GRAY NUT	8435179012363	BAG	5	u	0,015
44	100T1LP480	PG48 PA6 LIGHT GRAY NUT	8435179012394	BAG	5	u	0,018
45	100T1GM120	M12x1.5 PA6 DARK GRAY NUT	8435179012417	BAG	100	u	0,001
45	100T1GM160	M16x1.5 PA6 DARK GRAY NUT	8435179012448	BAG	100	u	0,001
45	100T1GM200	M20x1.5 PA6 DARK GRAY NUT	8435179012479	BAG	100	u	0,002
45	100T1GM250	M25x1.5 PA6 DARK GRAY NUT	8435179012509	BAG	50	u	0,003
45	100T1GM320	M32x1.5 PA6 DARK GRAY NUT	8435179012530	BAG	25	u	0,006
45	100T1GM400	M40x1.5 PA6 DARK GRAY NUT	8435179012561	BAG	10	u	0,011
45	100T1GM500	M50x1.5 PA6 DARK GRAY NUT	8435179012592	BAG	5	u	0,013
45	100T1GM630	M63x1.5 PA6 DARK GRAY NUT	8435179012622	BAG	5	u	0,018
45	100T1GP070	PG7 PA6 DARK GRAY NUT	8435179012110	BAG	100	u	0,001
45	100T1GP090	PG9 PA6 DARK GRAY NUT	8435179012141	BAG	100	u	0,001
45	100T1GP110	PG11 PA6 DARK GRAY NUT	8435179012172	BAG	100	u	0,002
45	100T1GP130	PG13.5 PA6 DARK GRAY NUT	8435179012202	BAG	100	u	0,002
45	100T1GP160	PG16 PA6 DARK GRAY NUT	8435179012233	BAG	100	u	0,003
45	100T1GP210	PG21 PA6 DARK GRAY NUT	8435179012264	BAG	50	u	0,005
45	100T1GP290	PG29 PA6 DARK GRAY NUT	8435179012295	BAG	25	u	0,006
45	100T1GP360	PG36 PA6 DARK GRAY NUT	8435179012325	BAG	10	u	0,014
45	100T1GP420	PG42 PA6 DARK GRAY NUT	8435179012356	BAG	5	u	0,015
45	100T1GP480	PG48 PA6 DARK GRAY NUT	8435179012387	BAG	5	u	0,018
46	100T1NM120	M12x1.5 PA6 BLACK NUT	8435179012431	BAG	100	u	0,001
46	100T1NM160	M16x1.5 PA6 BLACK NUT	8435179012462	BAG	100	u	0,001
46	100T1NM200	M20x1.5 BLACK NUT	8435179012493	BAG	100	u	0,002
46	100T1NM250	M25x1.5 PA6 BLACK NUT	8435179012523	BAG	50	u	0,003
46	100T1NM320	M32x1.5 PA6 BLACK NUT	8435179012554	BAG	25	u	0,006
46	100T1NM400	M40x1.5 PA6 BLACK NUT	8435179012585	BAG	10	u	0,011



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Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
46	100T1NM500	M50x1.5 PA6 BLACK NUT	8435179012615	BAG	5	u	0,013
46	100T1NM630	M63x1.5 PA6 BLACK NUT	8435179012646	BAG	5	u	0,018
46	100T1NP070	PG7 PA6 BLACK NUT	8435179012134	BAG	100	u	0,001
46	100T1NP090	PG9 PA6 BLACK NUT	8435179012165	BAG	100	u	0,001
46	100T1NP110	PG11PA6 BLACK NUT	8435179012196	BAG	100	u	0,002
46	100T1NP130	PG13.5 PA6 BLACK NUT	8435179012226	BAG	100	u	0,002
46	100T1NP160	PG16 PA6 BLACK NUT	8435179012257	BAG	100	u	0,003
46	100T1NP210	PG21 PA6 BLACK NUT	8435179012288	BAG	50	u	0,005
46	100T1NP290	PG29 PA6 BLACK NUT	8435179012318	BAG	25	u	0,006
46	100T1NP360	PG36 PA6 BLACK NUT	8435179012349	BAG	10	u	0,014
46	100T1NP420	PG42 PA6 BLACK NUT	8435179012370	BAG	5	u	0,015
46	100T1NP480	PG48 PA6 BLACK NUT	8435179012400	BAG	5	u	0,018
47	100O1LM120	M12x1.5 PA6 LIGHT GRAY ROUND CAP	8435179011878	BAG	100	u	0,001
47	100O1LM160	M16x1.5 PA6 LIGHT GRAY ROUND CAP	8435179011885	BAG	100	u	0,001
47	100O1LM200	M20x1.5 PA6 LIGHT GRAY ROUND CAP	8435179011892	BAG	100	u	0,002
47	100O1LM250	M25x1.5 PA6 LIGHT GRAY ROUND CAP	8435179011908	BAG	50	u	0,004
47	100O1LM320	M32x1.5 PA6 LIGHT GRAY ROUND CAP	8435179011915	BAG	25	u	0,005
47	100O1LM400	M40x1.5 PA6 LIGHT GRAY ROUND CAP	8435179011922	BAG	10	u	0,009
47	100O1LP070	PG7 PA6 LIGHT GRAY ROUND CAP	8435179011793	BAG	100	u	0,001
47	100O1LP090	PG9 PA6 LIGHT GRAY ROUND CAP	8435179011809	BAG	100	u	0,001
47	100O1LP110	PG11 PA6 LIGHT GRAY ROUND CAP	8435179011816	BAG	100	u	0,001
47	100O1LP130	PG13.5 PA6 LIGHT GRAY ROUND CAP	8435179011823	BAG	100	u	0,001
47	100O1LP160	PG16 PA6 LIGHT GRAY ROUND CAP	8435179011830	BAG	100	u	0,002
47	100O1LP210	PG21 PA6 LIGHT GRAY ROUND CAP	8435179011847	BAG	50	u	0,004
47	100O1LP290	PG29 PA6 LIGHT GRAY ROUND CAP	8435179011854	BAG	25	u	0,005
47	100O1LP360	PG36 PA6 LIGHT GRAY ROUND CAP	8435179011861	BAG	10	u	0,009

NICKEL-PLATED BRASS CABLE GLAND

CABLE GLAND

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
49	101P1GM120	M12x1.5 NP CABLE GLAND IP-68 (3-6.5)	8435179011717	BAG	100	u	0,012
49	101P1GM160	M16x1.5 NP CABLE GLAND IP-68 (4-8)	8435179011724	BAG	100	u	0,018
49	101P1GM200	M20x1.5 NP CABLE GLAND IP-68 (6-12)	8435179011731	BAG	100	u	0,029
49	101P1GM250	M25x1.5 NP CABLE GLAND IP-68 (10-14)	8435179011748	BAG	50	u	0,036
49	101P1GM320	M32x1.5 NP CABLE GLAND IP-68 (13-18)	8435179011755	BAG	25	u	0,067
49	101P1GM400	M40x1.5 NP CABLE GLAND IP-68 (18-25)	8435179011762	BAG	10	u	0,139
49	101P1GM500	M50x1.5 NP CABLE GLAND IP-68 (22-32)	8435179011779	BAG	5	u	0,231
49	101P1GM630	M63x1.5 NP CABLE GLAND IP-68 (33-44)	8435179011786	BAG	5	u	0,414
49	101P1GP070	PG7 NP CABLE GLAND IP-68 (3-6.5)	8435179011618	BAG	100	u	0,012
49	101P1GP090	PG9 NP CABLE GLAND IP-68 (4-8)	8435179011625	BAG	100	u	0,017
49	101P1GP110	PG11 NP CABLE GLAND IP-68 (5-10)	8435179011632	BAG	100	u	0,023
49	101P1GP130	PG13.5 NP CABLE GLAND IP-68 (6-12)	8435179011649	BAG	100	u	0,030
49	101P1GP160	PG16 NP CABLE GLAND IP-68 (10-14)	8435179011656	BAG	100	u	0,032
49	101P1GP210	PG21 NP CABLE GLAND IP-68 (13-18)	8435179011663	BAG	50	u	0,055
49	101P1GP290	PG29 NP CABLE GLAND IP-68 (18-25)	8435179011670	BAG	25	u	0,116
49	101P1GP360	PG36 NP CABLE GLAND IP-68 (22-32)	8435179011687	BAG	10	u	0,198

NICKEL-PLATED BRASS CABLE GLAND

CABLE GLAND

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
49	101P1GP420	PG42 NP CABLE GLAND IP-68 (30-38)	8435179011694	BAG	5	u	0,232
49	101P1GP480	PG48 NP CABLE GLAND IP-68 (33-44)	8435179011700	BAG	5	u	0,345
50	101T1GM120	M12x1.5 NP NUT	8435179012035	BAG	100	u	0,002
50	101T1GM160	M16x1.5 NP NUT	8435179012042	BAG	100	u	0,003
50	101T1GM200	M20x1.5 NP NUT	8435179012059	BAG	100	u	0,005
50	101T1GM250	M25x1.5 NP NUT	8435179012066	BAG	50	u	0,008
50	101T1GM320	M32x1.5 NP NUT	8435179012073	BAG	25	u	0,011
50	101T1GM400	M40x1.5 NP NUT	8435179012080	BAG	10	u	0,016
50	101T1GM500	M50x1.5 NP NUT	8435179012097	BAG	5	u	0,027
50	101T1GM630	M63x1.5 NP NUT	8435179012103	BAG	5	u	0,037
50	101T1GP070	PG7 NP NUT	8435179011939	BAG	100	u	0,001
50	101T1GP090	PG9 NP NUT	8435179011946	BAG	100	u	0,002
50	101T1GP110	PG11 NP NUT	8435179011953	BAG	100	u	0,003
50	101T1GP130	PG13 NP NUT	8435179011960	BAG	100	u	0,003
50	101T1GP160	PG16NP NUT	8435179011977	BAG	100	u	0,004
50	101T1GP210	PG21 NP NUT	8435179011984	BAG	50	u	0,007
50	101T1GP290	PG29 NP NUT	8435179011991	BAG	25	u	0,010
50	101T1GP360	PG36 NP NUT	8435179012004	BAG	10	u	0,017
50	101T1GP420	PG42 NP NUT	8435179012011	BAG	5	u	0,033
50	101T1GP480	PG48 NP NUT	8435179012028	BAG	5	u	0,036

TEXTURED METAL JUNCTION BOXES

JUNCTION BOXES

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
53	040CDTM254	254 TEXTURED JUNCTION BOX 90x90x47	8435179001817	BOX	20	u	0,289
53	040CDTM255	255 TEXTURED JUNCTION BOX 110x110x51	8435179001824	BOX	20	u	0,376
53	040CDTM256	256 TEXTURED JUNCTION BOX 130x130x60	8435179001831	BOX	16	u	0,511
53	040CDTM257	257 TEXTURED JUNCTION BOX 150x150x72	8435179001848	BOX	12	u	0,700
53	040CDTM258	258 TEXTURED JUNCTION BOX 200x200x90	8435179001855	BOX	4	u	1,205

STAINLESS METAL JUNCTION BOXES

JUNCTION BOXES

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
53	041CDIM264	264 SS AISI 304 JUNCTION BOX 90x90x90	8435179009172	BOX	1	u	0,480
53	041CDIM265	265 SS AISI 304 JUNCTION BOX 90x140x90	8435179009189	BOX	1	u	0,640
53	041CDIM266	266 SS AISI 304 JUNCTION BOX 100x160x100	8435179009196	BOX	1	u	0,985
53	041CDIM267	267 SS AISI 304 JUNCTION BOX 160x160x100	8435179009202	BOX	1	u	1,385
53	041CDIM268	268 SS AISI 304 JUNCTION BOX 200x200x100	8435179009219	BOX	1	u	1,990
53	042FPIM002	SS AISI 304 FLAT FIXING JUNCTION BOX	8435179009226	BAG	2	u	-

C PROFILES

PROFILES

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
56	080PCPG402	PG PERFORATED TYPE C PROFILE 40x20x1.5	8435179009615	BUNDLE	24	m	0,910
56	080PCPG201	PG PERFORATED TYPE C PROFILE 20x10x1.0	8435179009622	BUNDLE	24	m	0,310

DIN RAILS

PROFILES

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
56	080POPG315	PG PERFORATED DIN RAIL TYPE Ω 35x15x1.5	8435179009653	BUNDLE	20	m	0,610
56	080POCG315	PG BLIND DIN RAIL TYPE Ω 35x15x1.5	8435179009660	BUNDLE	20	m	0,680
56	080POPG375	PG PERFORATED DIN RAIL TYPE Ω 35x7.5x1.0	8435179009677	BUNDLE	20	m	0,325
56	080POCG375	PG BLIND DIN RAIL TYPE Ω 35x7.5x1.0	8435179009684	BUNDLE	20	m	0,350

RODS AND CLAMPS

EARTHING MATERIAL

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
59	500PTT1514	TT UNTHREADED ROD 100 µm 1.5 m	8435179001893	BUNDLE	5	u	1,800
59	500PTT2014	TT UNTHREADED ROD 100 µm 2.0 m	8435179001909	BUNDLE	5	u	2,400
59	500PTT1516	TT UNTHREADED ROD 300 µm 1.5 m	8435179008908	BUNDLE	5	u	1,900
59	500PTT2016	TT UNTHREADED ROD 300 µm 2.0 m	8435179008915	BUNDLE	5	u	2,530
60	500BGC0040	GC 40 CLAMP	8435179001862	BAG	20	u	0,082
60	500BGC0063	GC 63 CLAMP	8435179001879	BOX	20	u	0,134
61	500BGC1040	SS 304 GC 40 CLAMP	8435179009639	BOX	20	u	0,098
61	500BGC1063	SS 304 GC 63 CLAMP	8435179009646	BOX	20	u	0,134

ALUMINOTHERMIC WELDING

EARTHING MATERIAL

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
63	0510CRH3535	HORIZONTAL STRAIGHT MOULD FOR CABLE 035/035	8435179009776	BOX	1	u	1,160
63	0510CRH5035	HORIZONTAL STRAIGHT MOULD FOR CABLE 050/035	8435179009783	BOX	1	u	1,160
63	0510CRH5050	HORIZONTAL STRAIGHT MOULD FOR CABLE 050/050	8435179009790	BOX	1	u	1,160
63	0510CRH7035	HORIZONTAL STRAIGHT MOULD FOR CABLE 070/035	8435179009806	BOX	1	u	1,160
63	0510CRH7070	HORIZONTAL STRAIGHT MOULD FOR CABLE 070/070	8435179009813	BOX	1	u	1,160
63	0510CRH9535	HORIZONTAL STRAIGHT MOULD FOR CABLE 095/035	8435179009820	BOX	1	u	1,160
63	0510CRH9595	HORIZONTAL STRAIGHT MOULD FOR CABLE 095/095	8435179009837	BOX	1	u	1,160
63	0510CRH1212	HORIZONTAL STRAIGHT MOULD FOR CABLE 120/120	8435179009844	BOX	1	u	1,160
63	0510CRH1515	HORIZONTAL STRAIGHT MOULD FOR CABLE 150/150	8435179009851	BOX	1	u	1,160
63	0510CTH3535	HORIZONTAL T MOULD FOR CABLE 035/035	8435179009868	BOX	1	u	1,160
63	0510CTH5035	HORIZONTAL T MOULD FOR CABLE 050/035	8435179009875	BOX	1	u	1,160
63	0510CTH5050	HORIZONTAL T MOULD FOR CABLE 050/050	8435179009882	BOX	1	u	1,160
63	0510CTH7035	HORIZONTAL T MOULD FOR CABLE 070/035	8435179009899	BOX	1	u	1,160

ALUMINOTHERMIC WELDING

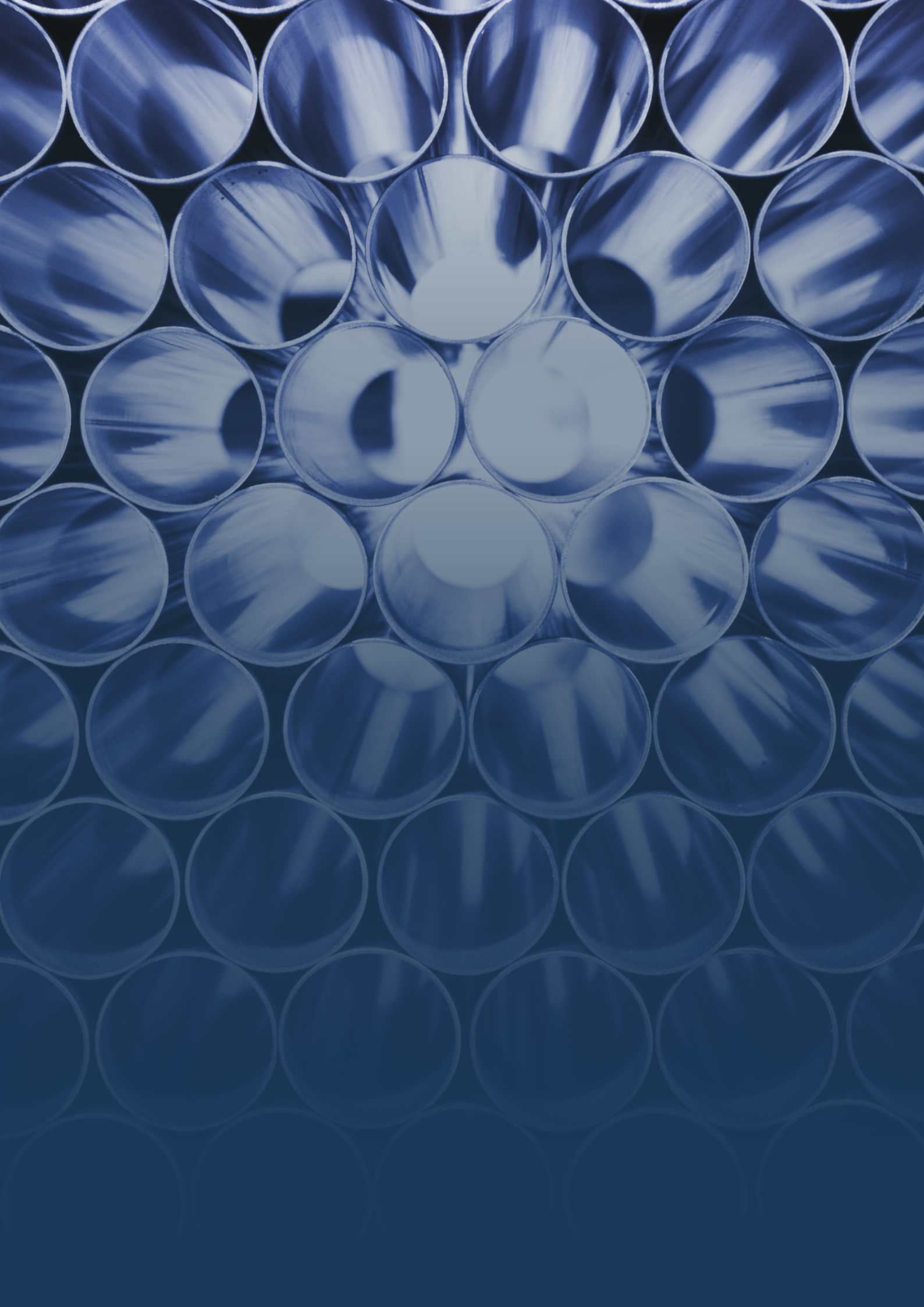
EARTHING MATERIAL

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
63	0510CTH7070	HORIZONTAL T MOULD FOR CABLE 070/070	8435179009905	BOX	1	u	1,160
63	0510CTH9535	HORIZONTAL T MOULD FOR CABLE 095/035	8435179009912	BOX	1	u	1,160
63	0510CTH9595	HORIZONTAL T MOULD FOR CABLE 095/095	8435179009929	BOX	1	u	1,160
63	0510CTH1212	HORIZONTAL T MOULD FOR CABLE 120/120	8435179009936	BOX	1	u	1,160
63	0510CTH1515	HORIZONTAL T MOULD FOR CABLE 150/150	8435179009943	BOX	1	u	1,160
64	0510CTV3535	VERTICAL T MOULD FOR CABLE 035/035	8435179009950	BOX	1	u	1,160
64	0510CTV5035	VERTICAL T MOULD FOR CABLE 050/035	8435179009967	BOX	1	u	1,160
64	0510CTV5050	VERTICAL T MOULD FOR CABLE 050/050	8435179009974	BOX	1	u	1,160
64	0510CTV7035	VERTICAL T MOULD FOR CABLE 070/035	8435179009981	BOX	1	u	1,160
64	0510CTV7070	VERTICAL T MOULD FOR CABLE 070/070	8435179009998	BOX	1	u	1,160
64	0510CTV9535	VERTICAL T MOULD FOR CABLE 095/035	8435179010000	BOX	1	u	1,160
64	0510CTV9595	VERTICAL T MOULD FOR CABLE 095/095	8435179010017	BOX	1	u	1,160
64	0510CTV1212	VERTICAL T MOULD FOR CABLE 120/120	8435179010024	BOX	1	u	1,160
64	0510CTV1515	VERTICAL T MOULD FOR CABLE 150/150	8435179010031	BOX	1	u	1,160
64	0510CPH3535	HORIZONTAL PARALLEL MOULD FOR CABLE 035/035	8435179010048	BOX	1	u	1,160
64	0510CPH5035	HORIZONTAL PARALLEL MOULD FOR CABLE 050/035	8435179010055	BOX	1	u	1,160
64	0510CPH5050	HORIZONTAL PARALLEL MOULD FOR CABLE 050/050	8435179010062	BOX	1	u	1,160
64	0510CPH7035	HORIZONTAL PARALLEL MOULD FOR CABLE 070/035	8435179010079	BOX	1	u	1,160
64	0510CPH7070	HORIZONTAL PARALLEL MOULD FOR CABLE 070/070	8435179010086	BOX	1	u	1,160
64	0510CPH9535	HORIZONTAL PARALLEL MOULD FOR CABLE 095/035	8435179010093	BOX	1	u	1,160
64	0510CPH9595	HORIZONTAL PARALLEL MOULD FOR CABLE 095/095	8435179010109	BOX	1	u	1,160
64	0510CPH1212	HORIZONTAL PARALLEL MOULD FOR CABLE 120/120	8435179010116	BOX	1	u	1,160
64	0510CPH1515	HORIZONTAL PARALLEL MOULD FOR CABLE 150/150	8435179010123	BOX	1	u	1,160
65	0510CXH3535	HORIZONTALONTAL X MOULD FOR CABLE 035/035	8435179010130	BOX	1	u	1,160
65	0510CXH5035	HORIZONTALONTAL X MOULD FOR CABLE 050/035	8435179010147	BOX	1	u	1,160
65	0510CXH5050	HORIZONTALONTAL X MOULD FOR CABLE 050/050	8435179010154	BOX	1	u	1,160
65	0510CXH7035	HORIZONTALONTAL X MOULD FOR CABLE 070/035	8435179010161	BOX	1	u	1,160
65	0510CXH7070	HORIZONTALONTAL X MOULD FOR CABLE 070/070	8435179010178	BOX	1	u	1,160
65	0510CXH9535	HORIZONTALONTAL X MOULD FOR CABLE 095/035	8435179010185	BOX	1	u	1,160
65	0510CXH9595	HORIZONTALONTAL X MOULD FOR CABLE 095/095	8435179010192	BOX	1	u	1,160
65	0510CXH1212	HORIZONTALONTAL X MOULD FOR CABLE 120/120	8435179010208	BOX	1	u	1,160
65	0510CXH1515	HORIZONTALONTAL X MOULD FOR CABLE 150/150	8435179010215	BOX	1	u	1,160
65	0510CXS3535	X OVERLAPPED MOULD FOR CABLE 035/035	8435179010222	BOX	1	u	1,160
65	0510CXS5035	X OVERLAPPED MOULD FOR CABLE 050/035	8435179010239	BOX	1	u	1,160
65	0510CXS5050	X OVERLAPPED MOULD FOR CABLE 050/050	8435179010246	BOX	1	u	1,160
65	0510CXS7035	X OVERLAPPED MOULD FOR CABLE 070/035	8435179010253	BOX	1	u	1,160
65	0510CXS7070	X OVERLAPPED MOULD FOR CABLE 070/070	8435179010260	BOX	1	u	1,160
65	0510CXS9535	X OVERLAPPED MOULD FOR CABLE 095/035	8435179010277	BOX	1	u	1,160
65	0510CXS9595	X OVERLAPPED MOULD FOR CABLE 095/095	8435179010284	BOX	1	u	1,160
65	0510CXS1212	X OVERLAPPED MOULD FOR CABLE 120/120	8435179010291	BOX	1	u	1,160
65	0510CXS1515	X OVERLAPPED MOULD FOR CABLE 150/150	8435179010307	BOX	1	u	1,160
66	0510PTV4235	VERTICAL T MOULD FOR ROD 14.2 AND CABLE 035	8435179010314	BOX	1	u	1,160
66	0510PTV4250	VERTICAL T MOULD FOR ROD 14.2 AND CABLE 050	8435179010321	BOX	1	u	1,160
66	0510PTV4270	VERTICAL T MOULD FOR ROD 14.2 AND CABLE 070	8435179010338	BOX	1	u	1,160
66	0510PTV4295	VERTICAL T MOULD FOR ROD 14.2 AND CABLE 095	8435179010345	BOX	1	u	1,160
66	0510PTV4212	VERTICAL T MOULD FOR ROD 14.2 AND CABLE120	8435179010352	BOX	1	u	1,160
66	0510PTV4215	VERTICAL T MOULD FOR ROD 14.2 AND CABLE150	8435179010369	BOX	1	u	1,160
66	0510PTV4635	VERTICAL T MOULD FOR ROD 14.6 AND CABLE 035	8435179010376	BOX	1	u	1,160
66	0510PTV4650	VERTICAL T MOULD FOR ROD 14.6 AND CABLE 050	8435179010383	BOX	1	u	1,160
66	0510PTV4670	VERTICAL T MOULD FOR ROD 14.6 AND CABLE 070	8435179010390	BOX	1	u	1,160

ALUMINOTHERMIC WELDING

EARTHING MATERIAL

Page	Reference	Description	EAN code	Type Packaging	Units/Pack	Unit extent	Weight (kg)
66	0510PTV4695	VERTICAL T MOULD FOR ROD 14.6 AND CABLE 095	8435179010406	BOX	1	u	1,160
66	0510PTV4612	VERTICAL T MOULD FOR ROD 14.6 AND CABLE 120	8435179010413	BOX	1	u	1,160
66	0510PTV4615	VERTICAL T MOULD FOR ROD 14.6 AND CABLE 150	8435179010420	BOX	1	u	1,160
66	0510PTV8335	VERTICAL T MOULD FOR ROD 18.3 AND CABLE 035	8435179010437	BOX	1	u	1,160
66	0510PTV8350	VERTICAL T MOULD FOR ROD 18.3 AND CABLE 050	8435179010444	BOX	1	u	1,160
66	0510PTV8370	VERTICAL T MOULD FOR ROD 18.3 AND CABLE 070	8435179010451	BOX	1	u	1,160
66	0510PTV8395	VERTICAL T MOULD FOR ROD 18.3 AND CABLE 095	8435179010468	BOX	1	u	1,160
66	0510PTV8312	VERTICAL T MOULD FOR ROD 18.3 AND CABLE 120	8435179010475	BOX	1	u	1,160
66	0510PTV8315	VERTICAL T MOULD FOR ROD 18.3 AND CABLE 150	8435179010482	BOX	1	u	1,160
66	0510PXV4235	XVERTICAL X MOULD FOR ROD 14.2 AND CABLE 035	8435179010499	BOX	1	u	2,000
66	0510PXV4250	VERTICAL X MOULD FOR ROD 14.2 AND CABLE 050	8435179010505	BOX	1	u	2,000
66	0510PXV4270	VERTICAL X MOULD FOR ROD 14.2 AND CABLE 070	8435179010512	BOX	1	u	2,000
66	0510PXV4295	VERTICAL X MOULD FOR ROD 14.2 AND CABLE 095	8435179010529	BOX	1	u	2,000
66	0510PXV4212	VERTICAL X MOULD FOR ROD 14.2 AND CABLE 120	8435179010536	BOX	1	u	2,000
66	0510PXV4215	VERTICAL X MOULD FOR ROD 14.2 AND CABLE 150	8435179010543	BOX	1	u	2,000
66	0510PXV4635	VERTICAL X MOULD FOR ROD 14.6 AND CABLE 035	8435179010550	BOX	1	u	2,000
66	0510PXV4650	VERTICAL X MOULD FOR ROD 14.6 AND CABLE 050	8435179010567	BOX	1	u	2,000
66	0510PXV4670	VERTICAL X MOULD FOR ROD 14.6 AND CABLE 070	8435179010574	BOX	1	u	2,000
66	0510PXV4695	VERTICAL X MOULD FOR ROD 14.6 AND CABLE 095	8435179010581	BOX	1	u	2,000
66	0510PXV4612	VERTICAL X MOULD FOR ROD 14.6 AND CABLE 120	8435179010598	BOX	1	u	2,000
66	0510PXV4615	VERTICAL X MOULD FOR ROD 14.6 AND CABLE 150	8435179010604	BOX	1	u	2,000
66	0510PXV8335	VERTICAL X MOULD FOR ROD 18.3 AND CABLE 035	8435179010611	BOX	1	u	2,000
66	0510PXV8350	VERTICAL X MOULD FOR ROD 18.3 AND CABLE 050	8435179010628	BOX	1	u	2,000
66	0510PXV8370	VERTICAL X MOULD FOR ROD 18.3 AND CABLE 070	8435179010635	BOX	1	u	2,000
66	0510PXV8395	VERTICAL X MOULD FOR ROD 18.3 AND CABLE 095	8435179010642	BOX	1	u	2,000
66	0510PXV8312	VERTICAL X MOULD FOR ROD 18.3 AND CABLE 120	8435179010659	BOX	1	u	2,000
66	0510PXV8315	VERTICAL X MOULD FOR ROD 18.3 AND CABLE 150	8435179010666	BOX	1	u	2,000
67	0511CART032	32 g WELDING CARTRIDGE	8435179009691	BOX	20	u	0,078
67	0511CART045	45 g WELDING CARTRIDGE	8435179009707	BOX	20	u	0,056
67	0511CART065	65 g WELDING CARTRIDGE	8435179009714	BOX	10	u	0,083
67	0511CART090	90 g WELDING CARTRIDGE	8435179009721	BOX	10	u	0,117
67	0511CART115	115 g WELDING CARTRIDGE	8435179009738	BOX	10	u	0,142
67	0511CART150	150 g WELDING CARTRIDGE	8435179009745	BOX	10	u	0,178
67	0511CART200	200 g WELDING CARTRIDGE	8435179009752	BOX	10	u	0,230
67	0511CART250	250 g WELDING CARTRIDGE	8435179009769	BOX	10	u	0,294
67	0512TEMOL01	MOULD HOLDING PLIERS 1	8435179010673	BOX	1	u	1,231
67	0512TEMOL02	MOULD HOLDING PLIERS 2	8435179010680	BOX	1	u	2,000
67	0512PARAS01	SCRAPER PALETTE MOULDS 1	8435179010703	UNIT	1	u	0,149
67	0512PARAS02	SCRAPER PALETTE MOULDS 2	8435179010710	UNIT	1	u	0,149
67	0512PASEL00	PASTE SEALING FOR MOULDS	8435179010727	BAG	1	u	0,100
67	0512PISIG00	IGNITION GUN	8435179010734	BAG	1	u	0,126
67	0512GUAPR00	WELDING PROTECTIVE GLOVES	8435179010741	BAG	1	u	0,050
67	0512GAFPR00	WELDING PROTECTIVE GLASSES	8435179010758	BAG	1	u	0,026
67	0512CECON00	CARD BRUSH FOR CABLES	8435179010765	BAG	1	u	0,073
67	0512BROML00	MOULD CLEANING BRUSH	8435179010772	BAG	1	u	0,028



Napoleón Armengol, S.L.

Pintor Joan Miró, 12-14

Polígono Industrial Can Humet

08213 Polinyà - Barcelona (Spain)

Tel: +34 93 713 24 44 **Fax:** +34 93 713 20 58

comercial@napoleon-armengol.com

www.napoleon-armengol.com

