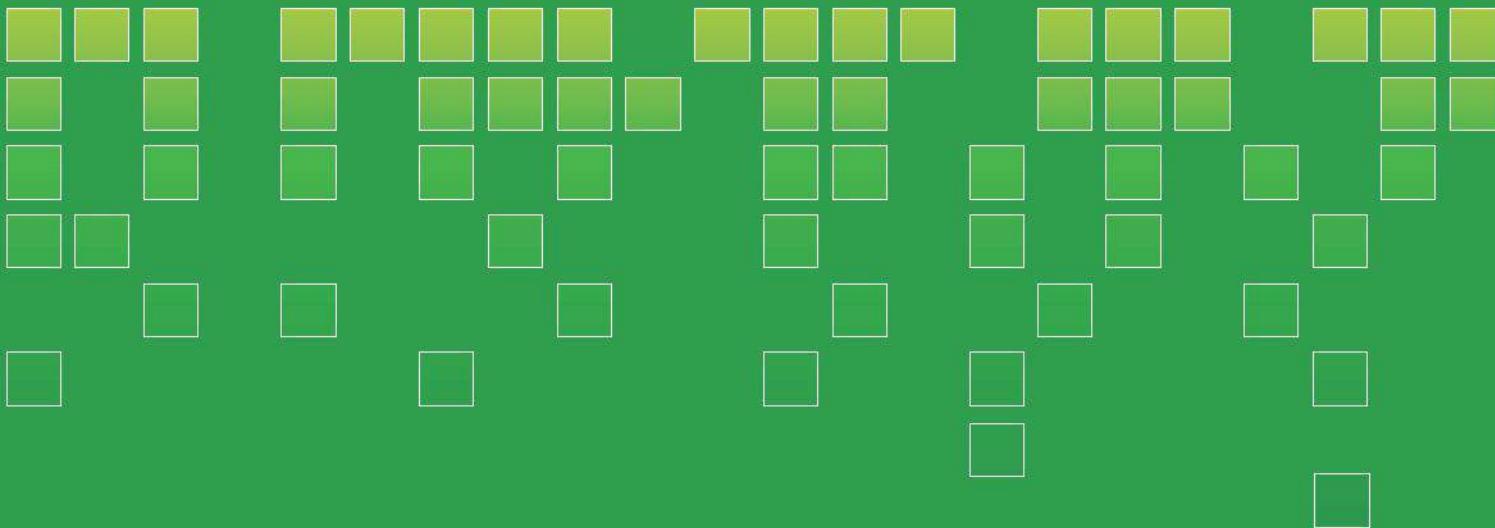


CABLE ACCESSORIES RANGE



WWW.ELECTROPARAKPAYA.COM

TECHNICAL INFORMATION

The technical information is provided to inform you about protective measures against corrosion help you find the suitable products for your application inform you about available, specially designed products.

If you should have any technical questions or requests about available nonstandard products we are glad to help you from our headquarters or our branch offices at any time. Subject to technical modifications. The technical information is provided to inform you about protective measures against corrosion help you find the suitable products for your application inform you about available, specially designed products. Cable clamps (clips) allow for easy and fast laying of single or bundled cables. They are used to fix cables to supporting profiles (lengthwise or transverse) or with plugs and screws against walls and ceilings.

For the passing of several parallel cables we recommend the use of console support rails. They can be anchored to walls and ceilings, resp. be clamped to support profiles If the available wall or ceiling area is not sufficient for the laying of cables in one layer, upright crossbars can be used for provision

of additional fastening points . Thus a multi-layer passing of cables becomes possible.

In order to avoid deformation of cables through exceeding pressure of cable clamp fastening, it is recommended to use form stabilizing counter- and double trays as a basic principle for especially sensitive cables or fragile plastic tubes we provide metal long trays that minimize the pressure effectively.

Highly sensitive radiofrequency cables can be passed safely with standard cable clamps if the clamps are equipped with high frequency counter beds. These are two sturdy half shells made of plastic. They enclose the cable completely and make sure that in spite of relatively high fastening tension and screwing force the "armed" cable is only held with a defined lower fastening pressure.

Signal reflections and modulations are minimized; damage to the cable is out of question.

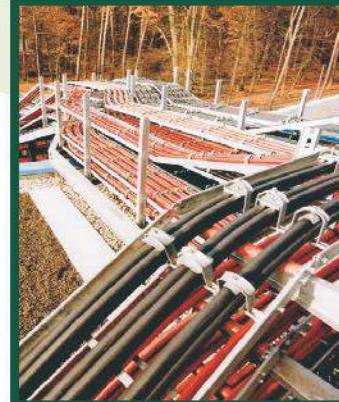
Complete armatures containing cable clamps, high frequency counter beds, as well as counter bolts for secure screw joints under stress of vibrations There you can find special clamps for fastening of other sizes and types of radiofrequency cables.

E . P . P

Special Types

In addition to our catalogue program, we provide you on request with:

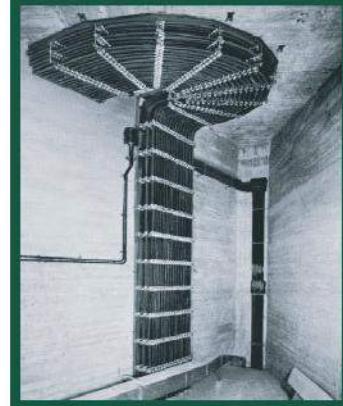
Cable clamps
of other sizes (inter sizes)
high-grade steel nuts and bolts for exclusion of corrosion in aggressive environments
with counter bolts for secure screw joints under stress of vibrations and shock



Corrosion Prevention

Prior to choosing materials for the passing of cables it is recommended to take a look at the corrosive environmental conditions at the construction site and to determine the corrosion prevention accordingly.

For installations in regular environment, zinc coatings have proven to be protective for steel against corrosion. However, the protective zinc coat is being reduced by various climatic influences throughout the years. The following table shows the loss of coating per year:



Environmental influence and corrosion risk

Corrosion- category	Loss of thickness µm/year	Typical environment	
		outdoors	indoors
C1 inconsiderable	≤ 0,1	-	Heated buildings like offices, stores, schools, hotels
C2 slight	> 0,1 until 0,7	little pollution, like rural areas	Not heated buildings with formation of condensate like store houses
C3 moderate	> 0,7 until 2,1	City and industrial environments with moderate pollution	Production plants with high humidity, like laundry, brewery and dairy
C4 strong	> 2,1 until 4,2	Industrial areas and coastlines with moderate salt impact	Chemical plants, swimming pools
C5-I very strong (industrial)	> 4,2 until 8,2	Industrial environment with high humidity and aggressive atmosphere	Buildings or areas with almost permanent condensation and pollution
C5-M very strong	> 4,2 until 8,2	Coastlines and offshore areas with high salt impact	Buildings or areas with almost permanent condensation and pollution

Environmental influence and corrosion risk

The loss of thickness per year multiplied with the expected life span of the construction determines the necessary thickness of zinc coating. There are mainly three zinc coatings that differ in thickness of coating, adhesive strength and appearance.

Galvanic Zinc (DIN 50961)

The small parts are zinced by means of electrolysis bath in which the zinc ions apply very evenly to the metal. The zinc coat is app. 5 µm thick, light glossy, and has an additional protection by succeeding bi chromium conditioning against abrasion.

Nuts and bolts (without further marking) in the EPP catalogue are galvanic zinc coated. They are used for connecting Sendzimir zinc coated construction elements.

Hot galvanized according to the Sendzimir procedure (DIN EN 10326/10327)

The steel strapping (thickness up to 2 mm) is coated in the steel-mill with zinc (flow path procedure). The result is an evenly spread and highly adhesive zinc coat with an average thickness of 19 µm.

Damage to the zinc coat caused by cutting, punching or drilling does not result in progressing corrosion because the neighbouring zinc is dissolving under the impact of (air-) humidity and builds a protective, brown coating layer of zinc hydroxide over the blanc metal. The "migration" of zinc ions protects free areas up until app. 2 mm width. These articles are marked with the symbol.



Hot dip galvanized (DIN EN ISO 1461)

The parts are hot dip galvanized after processing in liquid zinc (app. 450 °C). Chemical reactions lead to various zinc-iron alloys, which are especially firmly connected to the steel core. These alloys are usually coated with a "pure zinc layer". Depending on the speed of the reaction, steel composition, time of dipping, cooling process etc., a "growing through" to the surface of the zinc-iron alloy is possible as well.

Therefore the appearance of the surface varies from dull dark grey to light glossy. This is no indication of thickness of zinc coating or quality of corrosion prevention. Humid environment can also cause a forming of zinc-hydroxidecarbonate (so called white rust). This does not influence the efficiency of the corrosion prevention.

Cutting edges need to be protected with cold zinc paint

According to DIN EN ISO 1461 the average local thickness of the coating is at least

45 µm for material thicknesses up to 1,5 mm

55 µm for material thicknesses from 1,5 up to 3 mm

70 µm for material thicknesses from 3 up to 6 mm

The DIN EN ISO 1461 complies basically with

BS EN ISO 1461 in Great Britain

EN ISO 1461 in France

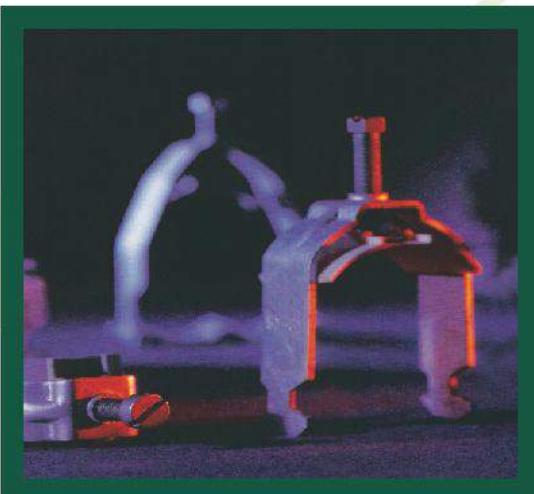
ASTM A123/A 123M in USA

B
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Hot dip galvanized material can be used in humid environment (corrosion classes C3 and limited C4). These articles are marked with the symbol.

The cable clamps marked with the symbol contain construction parts of various zinc coatings.

galvanized (cable diameter up to 40 mm) or hot dip galvanized rivet shank screws (cable diameter up to 44 mm)
sendzimir coated counter bed hot dip galvanized clips



High-grade steel

Considering the aspects of high corrosion resistance, easily cleanable surface, ability of recycling, and fire resistance, high-grade steel becomes increasingly the material of first choice. Especially for the chemical, paper, textile and food industry, in sewages, refineries, car tunnels and in off-shore areas it is being commonly used. Regarding the long lasting life cycle of such constructions high grade steel is often times the economically advantageous solution in spite of the higher initial investment. In case of insufficient corrosion resistance the investments are accelerated because of business interruption, rearrangement of cable loads, exchange of structural components.

Compared to various plastic materials high-grade steel features through high firmness, resistance against fire and heat, as well as the emission free manner in case of fire and mechanical processing.

The commonly used material No.: 1.4301 is marked with the short description X5CrNi 18-10 according to EN 10088-2 and has been approved by the German Institute for Construction Engineering in Berlin under the general admittance Z-30.3-6 for construction processes.

Assignment to recent and outdated norms:

EN 10088-2 : 1.4301 X5CrNi 18-10

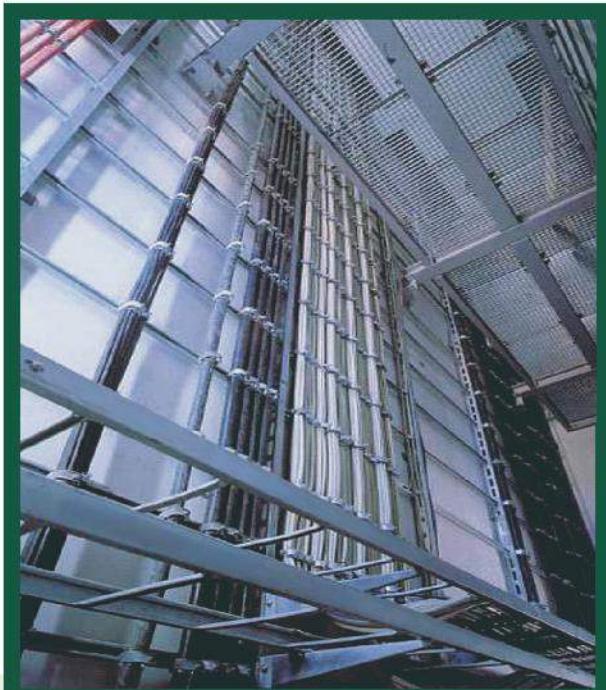
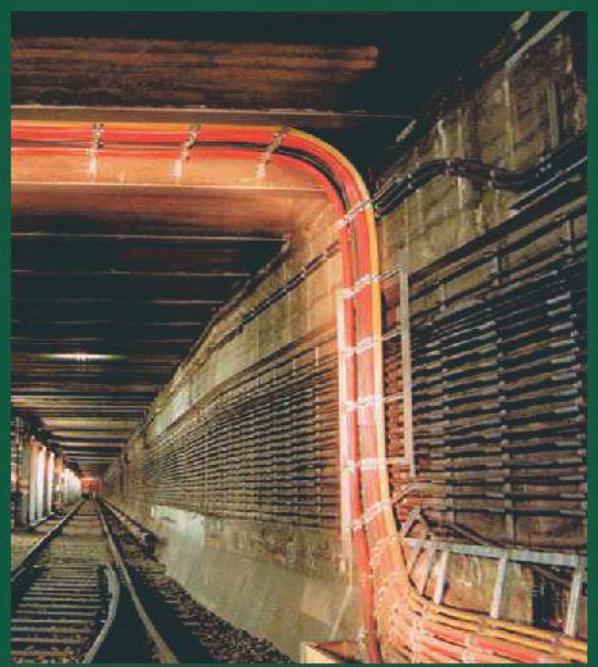
AISI : 304

UNS : S 30400

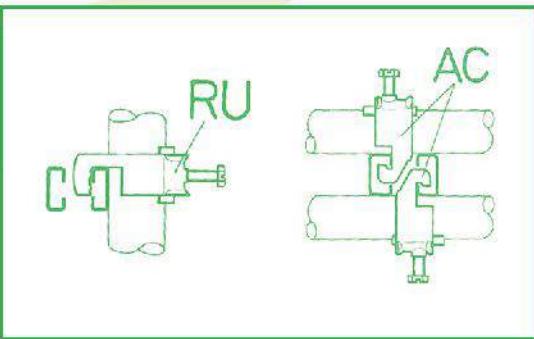
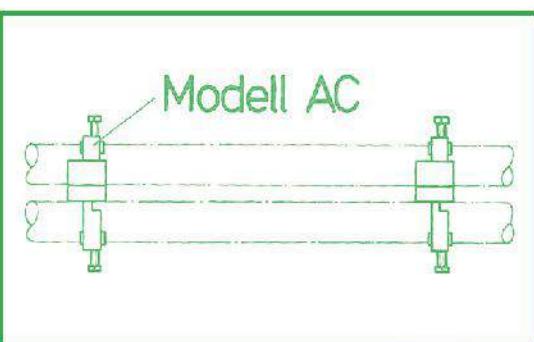
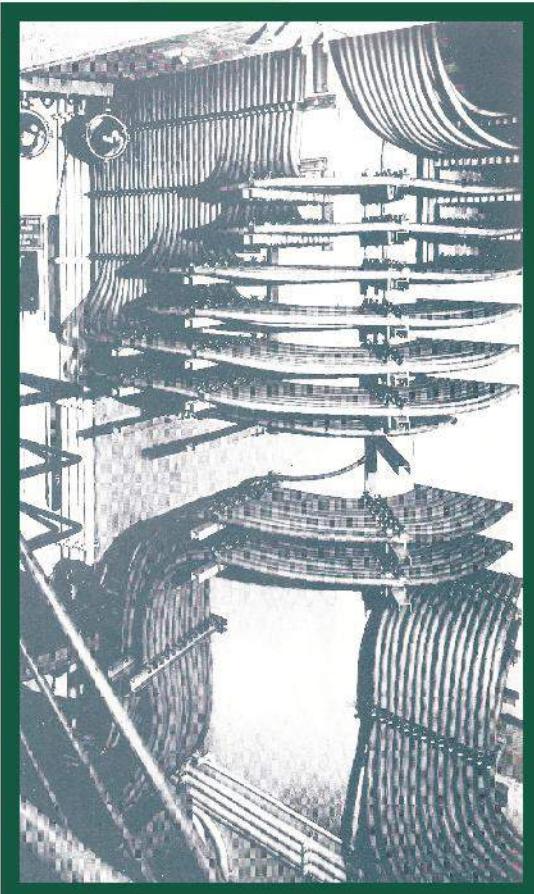
BS : 304 S15- 304 S31

AFNOR : Z7CN 18-09

DIN : 17441



EXAMPLES OF APPLICATION



Other materials of the same corrosion category available on request.

For special applications (light- and cable support constructions in car tunnels according to ZTV-ING) the high alloyed material No. 1.4529 is available.

Plastic

Counter beds and double beds are made of HDPE (high density polyethylene)

Vicat-softening temperature: 70-75 °C

Deformation resistance B (0,45 N/ mm²): 75-80 °C

Area of melting temperatures: 130-135 °C

Coldness resistance: app. -40 °C

PE – polyethylene

Temperature-resistance:

hard types permanently up to about 90 °C,

briefly up to about 105 °C

soft types permanently up to about 80 °C,

briefly up to about 100 °C

and to about minus 40 °C*.

Resistant to:

alkalis and inorganic acids.

Conditionally resistant to:

acetone, organic acids, petrol, benzene, diesel oil, most oils.

Not resistant to:

chlorine, hydrocarbons, oxidising acids.

Danger of stress cracking:

relatively high

Stress cracks can be caused by, among others, acetone, various alcohols, formic acid, ethanol, petrol, benzene, butyric acid, acetic acid, formaldehyde, various oils, petroleum, propanol, nitric acid, hydrochloric acid, sulphuric acid, soap solutions, turpentine, trichloroethylene, citric acid.

Light stabilized and increased UV-resistance through special carbon black additive. Resistant against brine, saline solution and organic acid. Not resistant against strong oxidants (nitration acid, concentrated saltpetre acid) and halogens. Isolation and high frequency beds are made of polystyrene, impact resistant (SB). This material is indicated with the symbol.

Vicat-softening temperature: 75-80 °C

Deformation resistance B (0,45 N/mm²): 74-81 °C

Area of melting temperatures: ≤ 55 °C

Coldness resistance: -40 °C

B
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PS – polystyrene

Temperature-resistance:

Because of its relatively high sensitivity to the effects of chemicals, its use is not recommended at temperatures above normal room temperature, about 25 °C.

Resistance to cold: to about minus 40 °C*.

Resistant to:

alkalis, most acids, alcohol.

Conditionally resistant to:

oils and greases.

Not resistant to:

butyric acid, concentrated nitric acid, concentrated acetic acid, acetone, ether, petrol and benzene, solvents for paints and lacquers, chlorine, diesel fuel.

Danger of stress cracking:

relatively high

Stress cracks can be caused by, among others, acetone, ether, petrol, cyclohexane, heptane, methanol, propanol and the softeners of some mixes used in PVC cables.

PP – polypropylene

Temperature-resistance:

permanently about 90 °C, briefly up to about 110 °C and to about minus 30 °C*.

Resistance to chemicals generally as for polyethylene.

Danger of stress cracking:

low, only with some acids such as chromic acid, hydrofluoric acid and hydrochloric acid, as well as nitrogen oxide.

PA – polyamide (nylon)

Temperature-resistance:

permanently up to about 90 °C, briefly up to about 130 °C and to about minus 40 °C*.

Resistant to:

petrol, benzene, diesel oil, acetone, solvents for paints and lacquers, oils and greases.

Low tendency to stress cracking.

Not resistant to:

bleach, most acids, chlorine.

Danger of stress cracking:

low in air-humid conditions; only with some aqueous salt solutions.

Highly desiccated parts (high temperature and extremely low air humidity) are highly sensitive to fuels and various solvents.

ABS – acrilonitrile butadiene styrene

Temperature-resistance:

permanently up to 70 °C, briefly up to 85 °C and to about minus 40 °C*.

Resistant to:

formic acid, citric acid, lactic acid.

Conditionally resistant to:

hydrochloric acid, sulphuric acid.

Not resistant to:

acetone, petrol, benzene, solvents for paints and lacquers, butyric acid, chlorine, acetic acid, nitric acid.

Danger of stress cracking:

relatively high, similar to polystyrene.

Hard PVC – hard polyvinylchloride

Temperature-resistance:

permanently up to about 65 °C, briefly up to about 75 °C and to about minus 30 °C*.

Resistant to:

weak acids, alkalis, oils and greases, petrol.

Not resistant to:

strong acids, benzene, acetone, iodine, toluene, trichloroethylene.

Danger of stress cracking:

low, only with some solvents such as benzene and acetone.

PC – polycarbonate

Temperature-resistance:

permanently up to about 110 °C (in water 60 °C), briefly up to 125 °C and to below minus 35 °C.

Resistant to:

petrol, turpentine, most weak acids.

Not resistant to:

acetone, benzene, chlorine, methylene chloride, most concentrated acids.

Danger of stress cracking:

relatively low.

Media that may cause stress cracking include petrol, aromatic hydrocarbons, methanol, butanol, acetone, turpentine.

Light stabilized and increased UV-resistance through special carbon black additive. Resistant against saline solution, brine, humidity and non oxidizing acid. Not resistant against aromatic and chlorinated hydrocarbon, ester, ketone, petrol, ethereal oil and some flavouring agents.

E. P. - A C

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For one cable.

Type	M Nm	Hmax Height	D size	Order No.
EPP12 AC	2.0	41	8-12	1011220101
EPP16 AC	2.0	46	12-16	1011220102
EPP20 AC	2.0	50	16-20	1011220103
EPP24 AC	2.0	54	20-24	1011220104
EPP28 AC	2.0	58	24-28	1011220105
EPP32 AC	2.0	63	28-32	1011220106
EPP36 AC	2.0	67	32-36	1011220107
EPP40 AC	2.0	71	36-40	1011220108
EPP44 AC	4.0	81	40-44	1011220109
EPP48 AC	4.0	85	44-48	1011220110
EPP52 AC	4.0	90	48-52	1011220111
EPP56 AC	4.0	94	52-56	1011220112
EPP60 AC	4.0	98	56-60	1011220113
EPP64 AC	4.0	102	60-64	1011220114
EPP70 AC	4.0	109	64-70	1011220115
EPP76 AC	4.0	113	70-76	1011220116
EPP82 AC	4.0	119	76-82	1011220117
EPP88 AC	4.0	125	82-88	1011220118
EPP94 AC	4.0	131	88-94	1011220119
EPP100 AC	4.0	137	94-100	1011220120
EPP110 AC	4.0	157	101-110	1011220121
EPP120 AC	4.0	167	111-120	1011220122
EPP150 AC	6.0	203	130-150	1011220123
EPP175 AC	6.0	228	155-175	1011220124

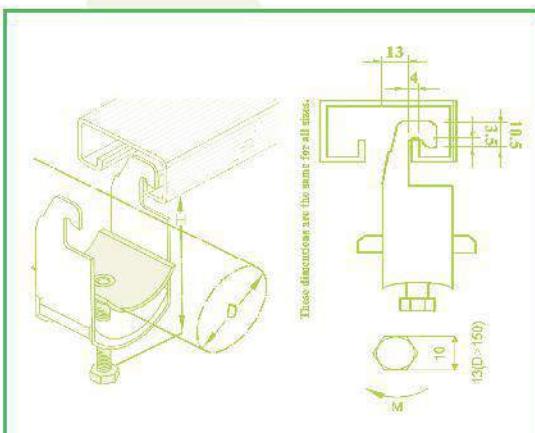
For two cables

EPP12 /2 AC	2.0	58	8-12	1011220125
EPP16 /2 AC	2.0	67	12-16	1011220126
EPP20 /2 AC	2.0	75	16-20	1011220127
EPP24 /2 AC	2.0	84	20-24	1011220128
EPP28 /2 AC	2.0	92	24-28	1011220129
EPP32 /2 AC	2.0	101	28-32	1011220130
EPP36 /2 AC	2.0	109	32-36	1011220131
EPP40 /2 AC	2.0	117	36-40	1011220132
EPP44 /2 AC	4.0	127	40-44	1011220133
EPP48 /2 AC	4.0	135	44-48	1011220134
EPP52 /2 AC	4.0	144	48-52	1011220135
EPP56 /2 AC	4.0	152	52-56	1011220136

For three cables.

EPP	PPM	AC	PPM	AC	PPM	AC	PPM	AC
EPP12	/3	AC	2.0	71	8-12		1011220137	
EPP18	/3	AC	2.0	85	12-16		1011220138	
EPP20	/3	AC	2.0	97	16-20		1011220139	
EPP24	/3	AC	2.0	110	20-24		1011220140	
EPP28	/3	AC	2.0	122	24-28		1011220141	
EPP32	/3	AC	2.0	134	28-32		1011220142	
EPP36	/3	AC	2.0	146	32-36		1011220143	
EPP40	/3	AC	2.0	158	36-40		1011220144	
EPP44	/3	AC	4.0	170	40-44			

Dimensions are in Millimetres



For fixing cables, lines and tubes to the illustrated channels or to similar channels with a slot width larger than 18 mm.



Material: Steel DIN 1623 T1, galvanized Hot-dip galvanized to DIN EN ISO 1461 (on request) Stainless Steel 1.4301 (on request) Aluminium AlMg3 (on request)

Accessories available

Tubes See Page: B19-B23
Profile rails See Page: C8

E.P.P.-ACF

For one cable.

Type	M Nm	Hmax Height	D size	Order No.
EPP12 ACF	2.0	41	8-12	1011220201
EPP16 ACF	2.0	46	12-16	1011220202
EPP20 ACF	2.0	50	16-20	1011220203
EPP24 ACF	2.0	54	20-24	1011220204
EPP28 ACF	2.0	58	24-28	1011220205
EPP32 ACF	2.0	63	28-32	1011220206
EPP36 ACF	2.0	67	32-36	1011220207
EPP40 ACF	2.0	71	36-40	1011220208
EPP44 ACF	4.0	81	40-44	1011220209
EPP48 ACF	4.0	85	44-48	1011220110
EPP52 ACF	4.0	90	48-52	1011220211
EPP56 ACF	4.0	94	52-56	1011220212
EPP60 ACF	4.0	98	56-60	1011220213

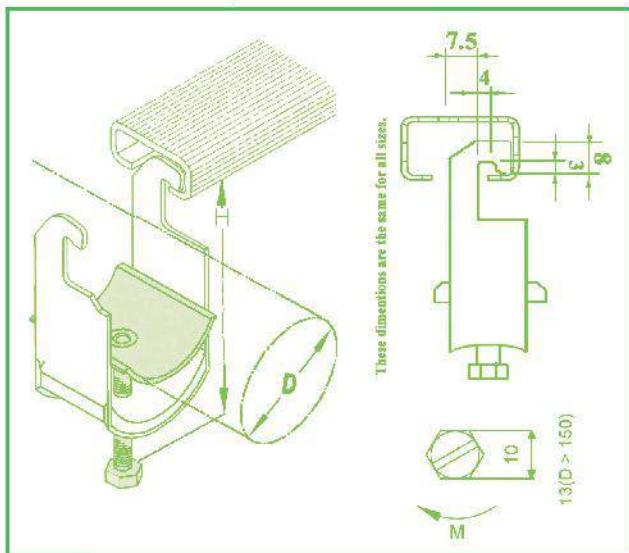
For two cables.

EPP12 /2 ACF	2.0	58	8-12	1011220214
EPP16 /2 ACF	2.0	67	12-16	1011220215
EPP20 /2 ACF	2.0	75	16-20	1011220216
EPP24 /2 ACF	2.0	84	20-24	1011220217
EPP28 /2 ACF	2.0	92	24-28	1011220218
EPP32 /2 ACF	2.0	101	28-32	1011220219

For three cables.

EPP12 /3 ACF	2.0	71	8-12	1011220220
EPP16 /3 ACF	2.0	85	12-16	1011220221
EPP20 /3 ACF	2.0	97	16-20	1011220222
EPP24 /3 ACF	2.0	110	20-24	1011220223
EPP28 /3 ACF	2.0	122	24-28	1011220224
EPP32 /3 ACF	2.0	134	28-32	1011220225

Dimensions are in Millimetres



For fixing cables, lines and tubes to the illustrated profiles with a slot width smaller than 8 mm and flat steel up to 7 mm thick.



Material: Steel DIN 1623 T1, galvanized Hot-dip galvanized to DIN EN ISO 1461 (on request) Stainless Steel 1.4301 (on request) Aluminium AlMg3 (on request)

Accessories available

Tubes	See Page: B19-B23
Profile rails	See Page: C5

E P P - H

For one cable.

Type	M Nm	Hmax Height	D size	order No.
EPP12 H	2.0	41	8-12	1011220301
EPP16 H	2.0	46	12-16	1011220302
EPP20 H	2.0	50	16-20	1011220303
EPP24 H	2.0	54	20-24	1011220304
EPP28 H	2.0	58	24-28	1011220305
EPP32 H	2.0	63	28-32	1011220306
EPP36 H	2.0	67	32-36	1011220307
EPP40 H	2.0	71	36-40	1011220308
EPP44 H	4.0	81	40-44	1011220309
EPP48 H	4.0	85	44-48	1011220310
EPP52 H	4.0	90	48-52	1011220311
EPP56 H	4.0	94	52-56	1011220312
EPP60 H	4.0	98	56-60	1011220313
EPP64 H	4.0	102	60-64	1011220314
EPP70 H	4.0	108	64-70	1011220315
EPP76 H	4.0	113	70-76	1011220316
EPP82 H	4.0	119	76-82	1011220317
EPP88 H	4.0	125	82-88	1011220318
EPP94 H	4.0	131	88-94	1011220319
EPP100 H	4.0	137	94-100	1011220320
EPP110 H	4.0	157	101-110	1011220321
EPP120 H	4.0	167	111-120	1011220322

For two cables.

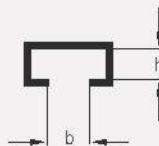
EPP12 /2 H	2.0	58	8-12	1011220323
EPP16 /2 H	2.0	67	12-16	1011220323
EPP20 /2 H	2.0	75	16-20	1011220324
EPP24 /2 H	2.0	84	20-24	1011220325
EPP28 /2 H	2.0	92	24-28	1011220326
EPP32 /2 H	2.0	101	28-32	1011220327
EPP36 /2 H	2.0	109	32-36	1011220328
EPP40 /2 H	2.0	117	36-40	1011220329
EPP44 /2 H	4.0	127	40-44	1011220330
EPP48 /2 H	4.0	135	44-48	1011220331
EPP52 /2 H	4.0	144	48-52	1011220332
EPP56 /2 H	4.0	152	52-56	1011220333

For three cables.

EPP12 /3 H	2.0	71	8-12	1011220334
EPP16 /3 H	2.0	85	12-16	1011220335
EPP20 /3 H	2.0	97	16-20	1011220336
EPP24 /3 H	2.0	110	20-24	1011220337
EPP28 /3 H	2.0	122	24-28	1011220338
EPP32 /3 H	2.0	134	28-32	1011220339
EPP36 /3 H	2.0	146	32-36	1011220340
EPP40 /3 H	2.0	158	36-40	1011220341
EPP44 /3 H	4.0	170	40-44	1011220342

Dimensions are in Millimetres

For fixture of cables, lines and tubes to C channels
min. height (h=15 mm Thickness=1.5 mm) or
(h=16 mm Thickness=2 mm), width b=16-17 mm



Material: Steel DIN 1623 T1, galvanized Hot-dip galvanized to DIN EN ISO 1461 (on request) Stainless Steel 1.4301 (on request) Aluminium AlMg3 (on request)

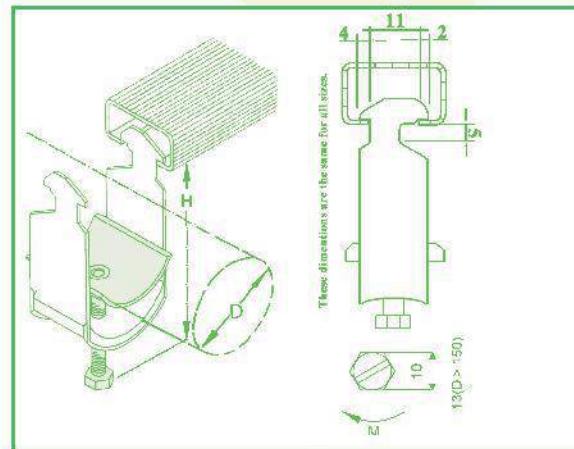
Accessories available

Tubes	See Page: B19-B23
Profile rails	See Page: C7

E . P . P - H B

For one cable.

Type	M Nm	Hmax Height	D size	Order No.
EPP12 HB	2.0	41	8-12	1011220401
EPP16 HB	2.0	46	12-16	1011220402
EPP20 HB	2.0	50	16-20	1011220403
EPP24 HB	2.0	54	20-24	1011220404
EPP28 HB	2.0	58	24-28	1011220405
EPP32 HB	2.0	63	28-32	1011220406
EPP36 HB	2.0	67	32-36	1011220407
EPP40 HB	2.0	71	36-40	1011220408
EPP44 HB	4.0	81	40-44	1011220409
EPP48 HB	4.0	85	44-48	1011220410
EPP52 HB	4.0	90	48-52	1011220411
EPP56 HB	4.0	94	52-56	1011220412
EPP60 HB	4.0	98	56-60	1011220413
EPP64 HB	4.0	102	60-64	1011220414
EPP70 HB	4.0	109	64-70	1011220415



For two cables.

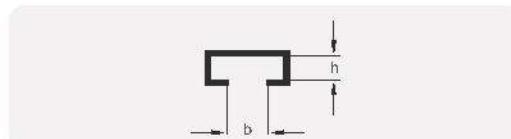
EPP12 /2 HB	2.0	58	8-12	1011220416
EPP16 /2 HB	2.0	67	12-16	1011220417
EPP20 /2 HB	2.0	75	16-20	1011220418
EPP24 /2 HB	2.0	84	20-24	1011220419
EPP28 /2 HB	2.0	92	24-28	1011220420
EPP32 /2 HB	2.0	101	28-32	1011220421
EPP36 /2 HB	2.0	109	32-36	1011220422
EPP40 /2 HB	2.0	117	36-40	1011220423
EPP44 /2 HB	4.0	127	40-44	1011220424
EPP48 /2 HB	4.0	135	44-48	1011220425
EPP52 /2 HB	4.0	144	48-52	1011220426
EPP56 /2 HB	4.0	152	52-56	1011220427

For three cables.

EPP12 /3 HB	2.0	71	8-12	1011220428
EPP16 /3 HB	2.0	85	12-16	1011220429
EPP20 /3 HB	2.0	97	16-20	1011220430
EPP24 /3 HB	2.0	110	20-24	1011220431
EPP28 /3 HB	2.0	122	24-28	1011220432
EPP32 /3 HB	2.0	134	28-32	1011220433
EPP36 /3 HB	2.0	146	32-36	1011220434
EPP40 /3 HB	2.0	158	36-40	1011220435
EPP44 /3 HB	4.0	170	40-44	1011220436

Dimensions are in Millimetres

For fixture of cables, lines and tubes to C channels min. profiles with a slot width larger height h=8 mm, width b=11-12 mm



Material: Steel DIN 1623 T1, galvanized Hot-dip galvanized to DIN EN ISO 1461 (on request) Stainless Steel 1.4301 (on request) Aluminium AlMg3 (on request)

Accessories available

Tubes	See Page: B19-B23
Profile rails	See Page: C6

E-P-P-H

For one cable.

Type	M	Hmax	D	Order No.
	Nm	Height	size	
EPP12 HE	2.0	41	8-12	1011220501
EPP16 HE	2.0	46	12-16	1011220502
EPP20 HE	2.0	50	16-20	1011220503
EPP24 HE	2.0	54	20-24	1011220504
EPP28 HE	2.0	58	24-28	1011220505
EPP32 HE	2.0	63	28-32	1011220506
EPP36 HE	2.0	67	32-36	1011220507
EPP40 HE	2.0	71	36-40	1011220508
EPP44 HE	4.0	81	40-44	1011220509
EPP48 HE	4.0	85	44-48	1011220510
EPP52 HE	4.0	90	48-52	1011220511
EPP56 HE	4.0	94	52-56	1011220512
EPP60 HE	4.0	98	56-60	1011220513
EPP64 HE	4.0	102	60-64	1011220514
EPP70 HE	4.0	109	64-70	1011220515
EPP76 HE	4.0	113	70-76	1011220516
EPP82 HE	4.0	119	76-82	1011220517
EPP88 HE	4.0	125	82-88	1011220518
EPP94 HE	4.0	131	88-94	1011220519
EPP100 HE	4.0	137	94-100	1011220520
EPP110 HE	4.0	157	101-110	1011220521
EPP120 HE	4.0	167	111-120	1011220522

For two cables.

EPP12 /2 HE	2.0	58	8-12	1011220523
EPP16 /2 HE	2.0	67	12-16	1011220524
EPP20 /2 HE	2.0	75	16-20	1011220525
EPP24 /2 HE	2.0	84	20-24	1011220526
EPP28 /2 HE	2.0	92	24-28	1011220527
EPP32 /2 HE	2.0	101	28-32	1011220528
EPP36 /2 HE	2.0	109	32-36	1011220529
EPP40 /2 HE	2.0	117	36-40	1011220530
EPP44 /2 HE	4.0	127	40-44	1011220531
EPP48 /2 HE	4.0	135	44-48	1011220532
EPP52 /2 HE	4.0	144	48-52	1011220533
EPP56 /2 HE	4.0	152	52-56	1011220534

For three cables.

EPP12 /3 HE	2.0	71	8-12	1011220535
EPP16 /3 HE	2.0	85	12-16	1011220536
EPP20 /3 HE	2.0	97	16-20	1011220537
EPP24 /3 HE	2.0	110	20-24	1011220538
EPP28 /3 HE	2.0	122	24-28	1011220539
EPP32 /3 HE	2.0	134	28-32	1011220540
EPP36 /3 HE	2.0	146	32-36	1011220541
EPP40 /3 HE	2.0	158	36-40	1011220542
EPP44 /3 HE	4.0	170	40-44	1011220543

Dimensions are in Millimetres

F or fixture of cables, lines and tubes to C channels min

Material: Steel DIN 1623 T1, galvanized Hot-dip galvanized to DIN EN ISO 1461 (on request) Stainless Steel 1.4301 (on request) Aluminium AlMg3 (on request)

Accessories available

Tubes	See Page: B19-B23
Profile rails	See Page: C8

E . P . P - B

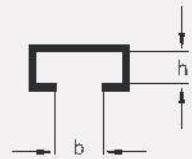
For one cable.

Type	M Nm	Hmax Height	D size	Order No.
EPP12 B	2.0	41	8-12	1011220601
EPP16 B	2.0	46	12-16	1011220602
EPP20 B	2.0	50	16-20	1011220603
EPP24 B	2.0	54	20-24	1011220604
EPP28 B	2.0	58	24-28	1011220605
EPP32 B	2.0	63	28-32	1011220606
EPP36 B	2.0	67	32-36	1011220607
EPP40 B	2.0	71	36-40	1011220608
EPP44 B	4.0	81	40-44	1011220609
EPP48 B	4.0	85	44-48	1011220610
EPP52 B	4.0	90	48-52	1011220611
EPP56 B	4.0	94	52-56	1011220612
EPP60 B	4.0	98	56-60	1011220613
EPP64 B	4.0	102	60-64	1011220614
EPP70 B	4.0	108	64-70	1011220615

For fixing cables, lines and tubes to C channels min.
height h=8 mm, width b=11-12 mm

For two cables.

EPP12 /2 B	2.0	58	8-12	1011220616
EPP16 /2 B	2.0	67	12-16	1011220617
EPP20 /2 B	2.0	75	16-20	1011220618
EPP24 /2 B	2.0	84	20-24	1011220619
EPP28 /2 B	2.0	92	24-28	1011220620
EPP32 /2 B	2.0	101	28-32	1011220621
EPP36 /2 B	2.0	109	32-36	1011220622
EPP40 /2 B	2.0	117	36-40	1011220623
EPP44 /2 B	4.0	127	40-44	1011220624
EPP48 /2 B	4.0	135	44-48	1011220625
EPP52 /2 B	4.0	144	48-52	1011220626
EPP56 /2 B	4.0	152	52-56	1011220627



Material: Steel DIN 1623 T1, galvanized Hot-dip galvanized to DIN EN ISO 1461 (on request)
Stainless Steel 1.4301(on request) Aluminium AIMg3 (on request)

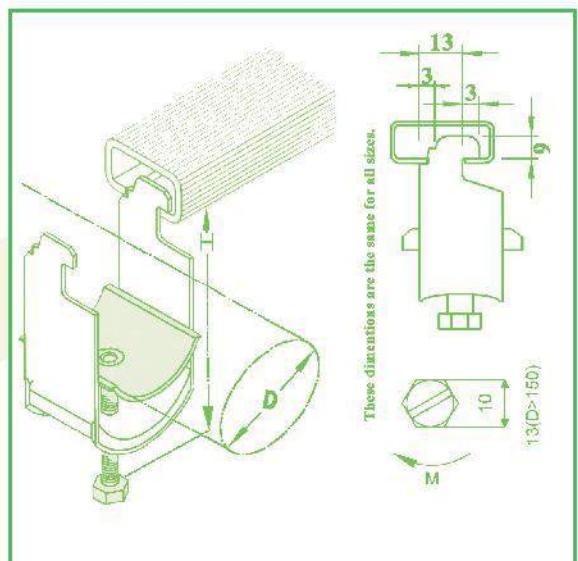
For three cables.

EPP12 /3 B	2.0	71	8-12	1011220628
EPP16 /3 B	2.0	85	12-16	1011220629
EPP20 /3 B	2.0	97	16-20	1011220630
EPP24 /3 B	2.0	110	20-24	1011220631
EPP28 /3 B	2.0	122	24-28	1011220632
EPP32 /3 B	2.0	134	28-32	1011220633
EPP36 /3 B	2.0	146	32-36	1011220634
EPP40 /3 B	2.0	158	36-40	1011220635
EPP44 /3 B	4.0	170	40-44	1011220636

Dimensions are in Millimetres

Accessories available

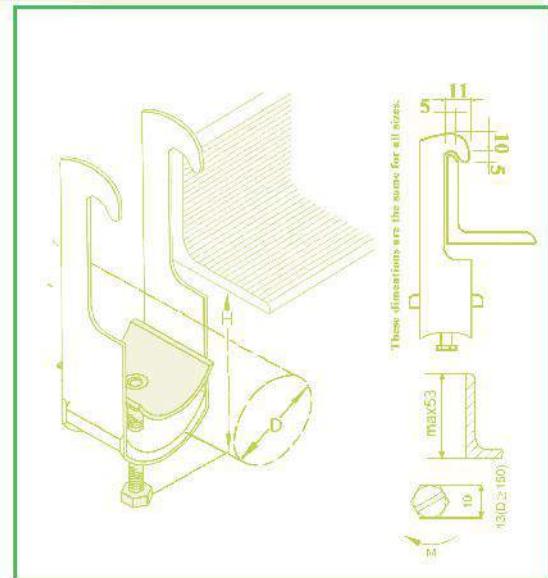
Tubes	See Page: B19-B23
Profile rails	See Page: C6



For one cable.

Type	M Nm	Hmax Height	D size	Order No.
EPP12 S	2.0	41	8-12	1011220701
EPP16 S	2.0	46	12-16	1011220702
EPP20 S	2.0	50	16-20	1011220703
EPP24 S	2.0	54	20-24	1011220704
EPP28 S	2.0	58	24-28	1011220705
EPP32 S	2.0	63	28-32	1011220706
EPP36 S	2.0	67	32-36	1011220707
EPP40 S	2.0	71	36-40	1011220708
EPP44 S	4.0	81	40-44	1011220709
EPP48 S	4.0	85	44-48	1011220710
EPP52 S	4.0	90	48-52	1011220711
EPP56 S	4.0	94	52-56	1011220712
EPP60 S	4.0	98	56-60	1011220713
EPP64 S	4.0	102	60-64	1011220714
EPP70 S	4.0	109	64-70	1011220715
EPP76 S	4.0	113	70-76	1011220716
EPP82 S	4.0	119	76-82	1011220717
EPP88 S	4.0	125	82-88	1011220718
EPP94 S	4.0	131	88-94	1011220719
EPP100 S	4.0	137	94-100	1011220720
EPP110 S	4.0	157	101-110	1011220721
EPP120 S	4.0	167	111-120	1011220722
EPP150 S	6.0	203	130-150	1011220723
EPP175 S	6.0	228	155-175	1011220724

E . P . P - S



For two cables.

EPP12/2 S	2.0	58	8-12	1011220725
EPP16/2 S	2.0	67	12-16	1011220726
EPP20/2 S	2.0	75	16-20	1011220727
EPP24/2 S	2.0	84	20-24	1011220728
EPP28/2 S	2.0	92	24-28	1011220729
EPP32/2 S	2.0	101	28-32	1011220730
EPP36/2 S	2.0	109	32-36	1011220731
EPP40/2 S	2.0	117	36-40	1011220732
EPP44/2 S	4.0	127	40-44	1011220733
EPP48/2 S	4.0	135	44-48	1011220734
EPP52/2 S	4.0	144	48-52	1011220735
EPP56/2 S	4.0	152	52-56	1011220736

For fixing cables, lines and tubes to angle iron or channel 40 mm height. Cable clamp for 30 mm and 50 mm height available upon request.



For three cables.

EPP12/3 S	2.0	71	8-12	1011220737
EPP16/3 S	2.0	85	12-16	1011220738
EPP20/3 S	2.0	97	16-20	1011220739
EPP24/3 S	2.0	110	20-24	1011220740
EPP28/3 S	2.0	122	24-28	1011220741
EPP32/3 S	2.0	134	28-32	1011220742
EPP36/3 S	2.0	146	32-36	1011220743
EPP40/3 S	2.0	158	36-40	1011220744
EPP44/3 S	4.0	170	40-44	1011220745

Dimensions are in Millimetres

Material: Steel DIN 1623 T1, galvanized Hot-dip galvanized to DIN EN ISO 1461 (on request) Stainless Steel 1.4301 (on request) Aluminium AlMg3 (on request)

Accessories available

Tubes

See Page: B19-B23

For one cable.

Type	M Nm	Hmax Height	D size	Order No.
EPP12 U	2.0	41	8-12	1011220801
EPP16 U	2.0	46	12-16	1011220802
EPP20 U	2.0	50	16-20	1011220803
EPP24 U	2.0	54	20-24	1011220804
EPP28 U	2.0	58	24-28	1011220805
EPP32 U	2.0	63	28-32	1011220806
EPP36 U	2.0	67	32-36	1011220807
EPP40 U	2.0	71	36-40	1011220808
EPP44 U	4.0	81	40-44	1011220809
EPP48 U	4.0	85	44-48	1011220810
EPP52 U	4.0	90	48-52	1011220811
EPP56 U	4.0	94	52-56	1011220812
EPP60 U	4.0	98	56-60	1011220813
EPP64 U	4.0	102	60-64	1011220814
EPP70 U	4.0	109	64-70	1011220815
EPP76 U	4.0	113	70-76	1011220816
EPP82 U	4.0	119	76-82	1011220817
EPP88 U	4.0	125	82-88	1011220818
EPP94 U	4.0	131	88-94	1011220819
EPP100 U	4.0	137	94-100	1011220820
EPP110 U	4.0	157	101-110	1011220821
EPP120 U	4.0	167	111-120	1011220822
EPP150 U	6.0	203	130-150	1011220823
EPP172 U	6.0	228	155-175	1011220824

For two cables.

EPP12 /2 U	2.0	58	8-12	1011220825
EPP16 /2 U	2.0	67	12-16	1011220826
EPP20 /2 U	2.0	75	16-20	1011220827
EPP24 /2 U	2.0	84	20-24	1011220828
EPP28 /2 U	2.0	92	24-28	1011220829
EPP32 /2 U	2.0	101	28-32	1011220830
EPP36 /2 U	2.0	109	32-36	1011220831
EPP40 /2 U	2.0	117	36-40	1011220832
EPP44 /2 U	4.0	127	40-44	1011220833
EPP48 /2 U	4.0	135	44-48	1011220834
EPP52 /2 U	4.0	144	48-52	1011220835
EPP56 /2 U	4.0	152	52-56	1011220836

For three cables.

EPP12 /3 U	2.0	71	8-12	1011220837
EPP16 /3 U	2.0	85	12-16	1011220838
EPP20 /3 U	2.0	97	16-20	1011220839
EPP24 /3 U	2.0	110	20-24	1011220840
EPP28 /3 U	2.0	122	24-28	1011220841
EPP32 /3 U	2.0	134	28-32	1011220842
EPP36 /3 U	2.0	146	32-36	1011220843
EPP40 /3 U	2.0	158	36-40	1011220844
EPP44 /3 U	4.0	170	40-44	1011220845

Dimensions are in Millimetres

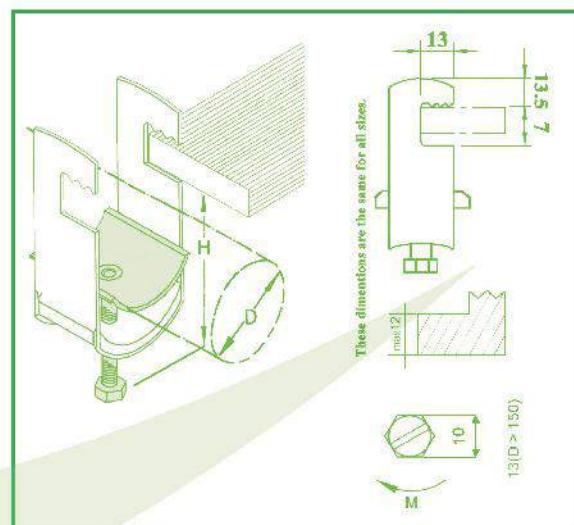
Material: Steel DIN 1623 T1, galvanized Hot-dip galvanized to DIN EN ISO 1461 (on request) Stainless Steel 1.4301 (on request) Aluminium AlMg3 (on request)

Accessories available

Tubes

See Page: B19-B23

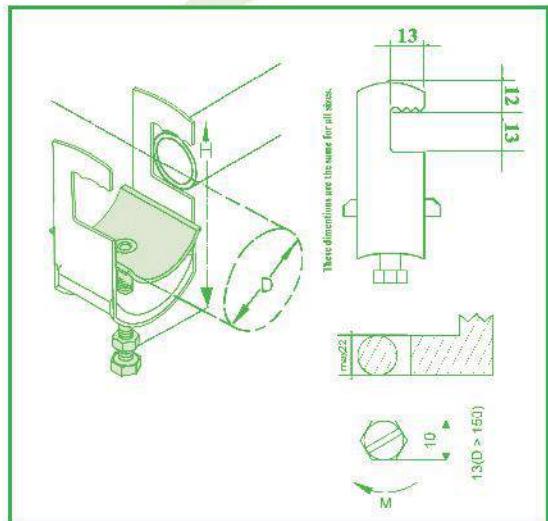
E·P·P·U



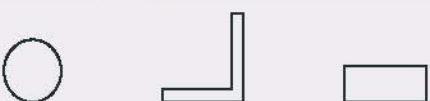
For fixing cables, lines and tubes to profiles up to 12 mm thick.



E . P . P - R U



For fixing cables, lines and tubes to round steel up to 22 mm Ø, angle iron up to 20 mm height and flat steel 12-22 mm thick



Material: Steel DIN 1623 T1, galvanized Hot-dip galvanized to DIN EN ISO 1461 (on request) Stainless Steel 1.4301 (on request) Aluminium AlMg3 (on request)

For one cable.

Type	M Nm	Hmax Height	D size	Order No.
EPP12 RU	2.0	41	8-12	1011220901
EPP16 RU	2.0	46	12-16	1011220902
EPP20 RU	2.0	50	16-20	1011220903
EPP24 RU	2.0	54	20-24	1011220904
EPP28 RU	2.0	58	24-28	1011220905
EPP32 RU	2.0	63	28-32	1011220906
EPP36 RU	2.0	67	32-36	1011220907
EPP40 RU	2.0	71	36-40	1011220908
EPP44 RU	4.0	81	40-44	1011220909
EPP48 RU	4.0	85	44-48	1011220910
EPP52 RU	4.0	90	48-52	1011220911
EPP56 RU	4.0	94	52-56	1011220912
EPP60 RU	4.0	98	56-60	1011220913
EPP64 RU	4.0	102	60-64	1011220914
EPP70 RU	4.0	109	64-70	1011220915

B
16

For two cables.

EPP12/2 RU	2.0	58	8-12	1011220916
EPP16/2 RU	2.0	67	12-16	1011220917
EPP20/2 RU	2.0	75	16-20	1011220918
EPP24/2 RU	2.0	84	20-24	1011220919
EPP28/2 RU	2.0	92	24-28	1011220920
EPP32/2 RU	2.0	101	28-32	1011220921
EPP36/2 RU	2.0	109	32-36	1011220922
EPP40/2 RU	2.0	117	36-40	1011220923
EPP44/2 RU	4.0	127	40-44	1011220924

For three cables.

EPP12/3 RU	2.0	71	8-12	1011220925
EPP16/3 RU	2.0	85	12-16	1011220926
EPP20/3 RU	2.0	97	16-20	1011220927
EPP24/3 RU	2.0	110	20-24	1011220928
EPP28/3 RU	2.0	122	24-28	1011220929
EPP32/3 RU	2.0	134	28-32	1011220930

Dimensions are in Millimetres

Accessories available

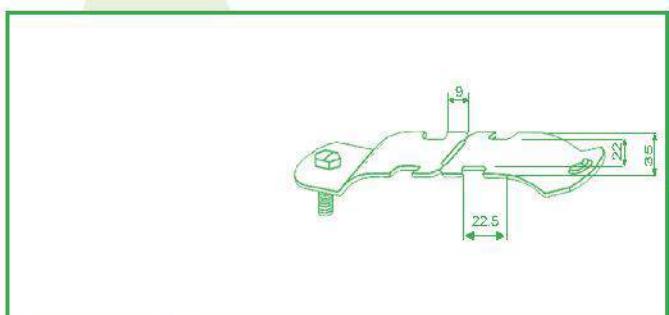
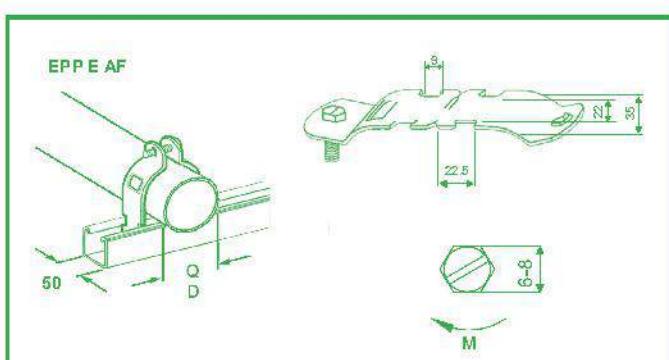
Tubes

See Page: B19-B23

E-P-P-EF

Type	D size	Order No.
EPP.E8	8-12	1011221001
EPP.E12	12-16	1011221002
EPP.E16	16-20	1011221003
EPP.E20	20-24	1011221004
EPP.E24	24-28	1011221005
EPP.E28	28-32	1011221006
EPP.E32	32-36	1011221007
EPP.E36	36-40	1011221008
EPP.E40	40-44	1011221009
EPP.E44	44-48	1011221010
EPP.E48	48-52	1011221011
EPP.E52	52-56	1011221012
EPP.E56	56-60	1011221013
EPP.E60	60-64	1011221014
EPP.E64	64-70	1011221015
EPP.E70	70-76	1011221016
EPP.E76	76-82	1011221017
EPP.E88	82-88	1011221018
EPP.E94	88-94	1011221019
EPP.E100	94-100	1011221020
EPP.E110	101-110	1011221021
EPP.E120	111-120	1011221022
EPP.E130	130-150	1011221023

Type	Q inches	D size	Order No.
EPP.E1/4"	1/4"	13-15	1011221024
EPP.E3/8"	3/8"	16-18	1011221025
EPP.E1/2"	1/2"	20-22	1011221026
EPP.E3/4"	3/4"	25-28	1011221027
EPP.E1"	1"	33-35	1011221028
EPP.E1 1/4"	1 1/4"	42-44	1011221029
EPP.E1 1/2"	1 1/2"	48-50	1011221030
EPP.E2	2"	60-62	1011221031
EPP.E2 1/2"	2 1/2"	75-77	1011221032
EPP.E3	3"	88-90	1011221033
EPP.E4	4"	113-115	1011221034
EPP.E5	5"	138-141	1011221035
EPP.E6	6"	164-166	1011221036



Type	D size	Order No.
EPP.E PG11	18	1011221037
EPP.E PG13/5	20	1011221038
EPP.E PG16	22	1011221039
EPP.E PG21	28	1011221040
EPP.E PG29	37	1011221041
EPP.E PG36	47	1011221042
EPP.E PG42	54	1011221043
EPP.E PG48	60	1011221044

Accessories available

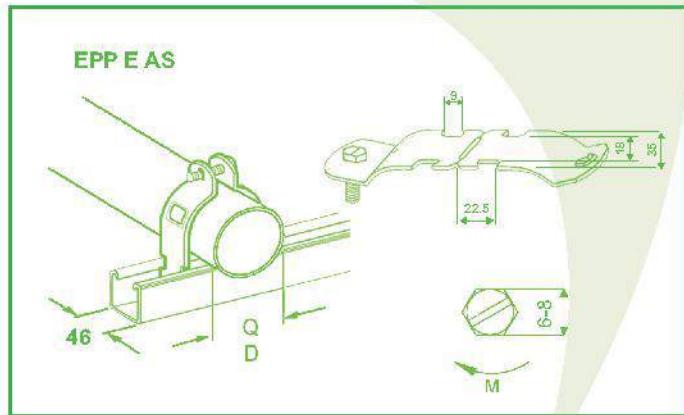
Profile rails

See Page: C8

Material: Steel DIN 1623 T1, galvanized Hot-dip galvanized to DIN EN ISO 1461 (on request) Stainless Steel 1.4301 (on request) Aluminium AlMg3 (on request)

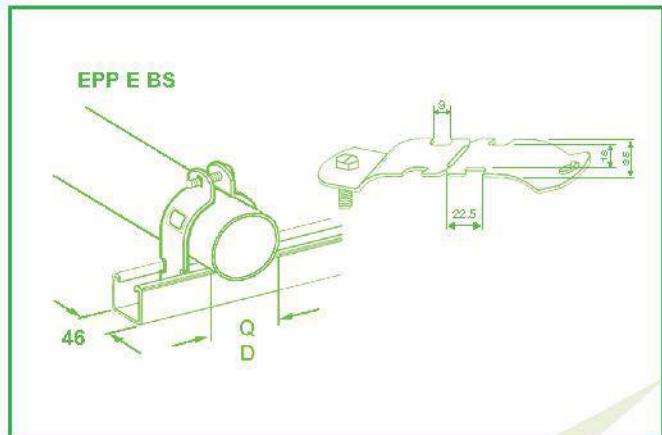
E . P . P - E S

Type	D size	Order No.
EPP.E8	8-12	1011221101
EPP.E12	12-16	1011221102
EPP.E16	16-20	1011221103
EPP.E20	20-24	1011221104
EPP.E24	24-28	1011221105
EPP.E28	28-32	1011221106
EPP.E32	32-36	1011221107
EPP.E36	36-40	1011221108
EPP.E40	40-44	1011221109
EPP.E44	44-48	1011221110
EPP.E48	48-52	1011221111
EPP.E52	52-56	1011221112
EPP.E56	56-60	1011221113
EPP.E60	60-64	1011221114
EPP.E64	64-70	1011221115
EPP.E70	70-76	1011221116
EPP.E76	76-82	1011221117
EPP.E88	82-88	1011221118
EPP.E94	88-94	1011221119
EPP.E100	94-100	1011221120
EPP.E110	101-110	1011221121
EPP.E120	111-120	1011221122
EPP.E130	130-150	1011221123



B
18

Type	Q inches	D size	Order No.
EPP.E1/4"	1/4"	13-15	1011221124
EPP.E3/8"	3/8"	16-18	1011221125
EPP.E1/2"	1/2"	20-22	1011221126
EPP.E3/4"	3/4"	25-28	1011221127
EPP.E1"	1"	33-35	1011221128
EPP.E1 1/4"	1 1/4"	42-44	1011221129
EPP.E1 1/2"	1 1/2"	48-50	1011221130
EPP.E2	2"	60-62	1011221131
EPP.E2 1/2"	2 1/2"	75-77	1011221132
EPP.E3	3"	88-90	1011221133
EPP.E4	4"	113-115	1011221134
EPP.E5	5"	138-141	1011221135
EPP.E6	6"	164-166	1011221136



Material: Steel DIN 1623 T1, galvanized Hot-dip galvanized to DIN EN ISO 1461 (on request)
Stainless Steel 1.4301 (on request) Aluminium AlMg3 (on request)

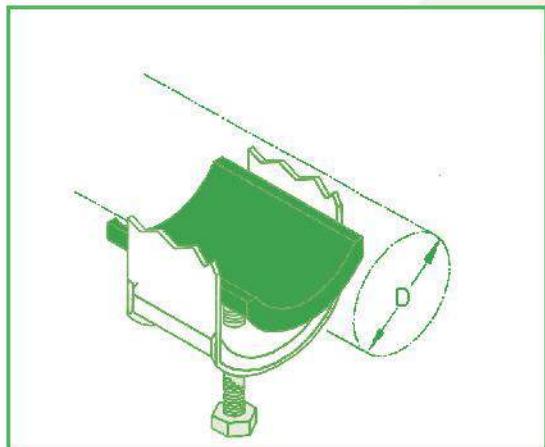
Type	D size	Order No.
EPP.E PG11	18	1011221137
EPP.E PG13/5	20	1011221138
EPP.E PG16	22	1011221139
EPP.E PG21	28	1011221140
EPP.E PG29	37	1011221141
EPP.E PG36	47	1011221142
EPP.E PG42	54	1011221143
EPP.E PG48	60	1011221144

Accessories available

Profile rails

See Page: C8

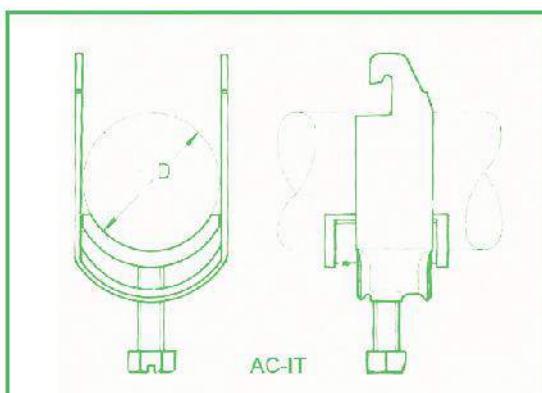
E.P.P-IT (Insulating Trough)



Everlasting from through area-covering steel reinforcement with equal surface pressing

Material: Polypropylene, Polystyrene

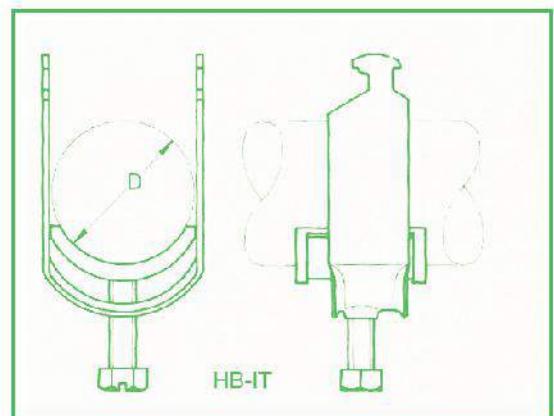
Color: Black, Light grey (RAL 7035)



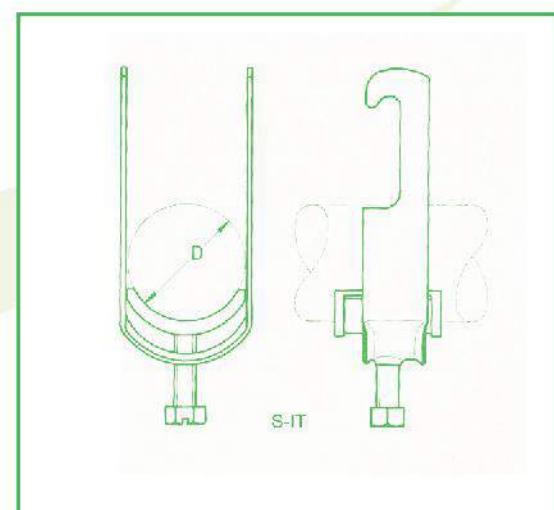
AC-IT

Type	D	Order No.
EPP 12IT	8-12	1011230101
EPP 16IT	12-16	1011230102
EPP 20IT	16-20	1011230103
EPP 24IT	20-24	1011230104
EPP 28IT	24-28	1011230105
EPP 32IT	28-32	1011230106
EPP 36IT	32-36	1011230107
EPP 40IT	36-40	1011230108
EPP 44IT	40-44	1011230109
EPP 48IT	44-48	1011230110
EPP 52IT	48-52	1011230111
EPP 56IT	52-56	1011230112

Dimensions are in Millimetres

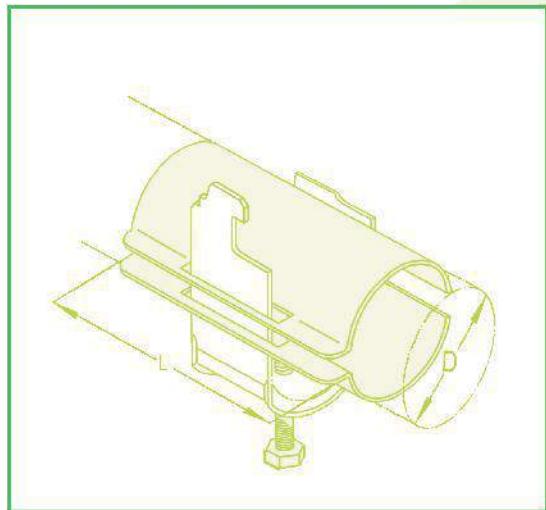


HB-IT



S-IT

E.P.P-EC (Extended Counterbed)



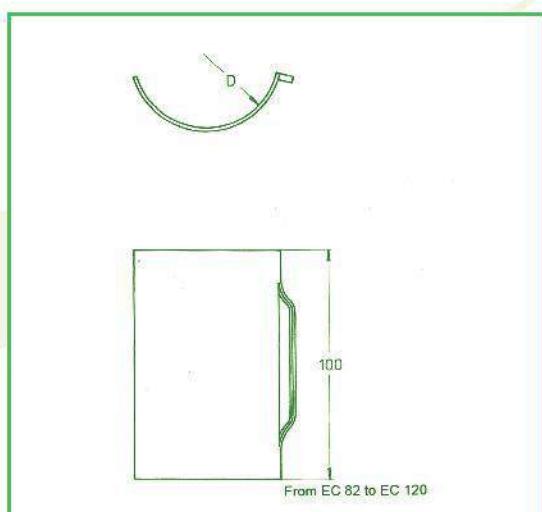
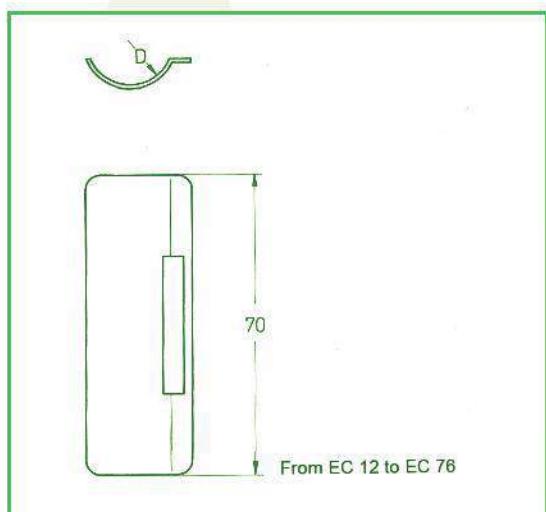
To reduce compression when fixing especially pressure-sensitive cable, plastic tubes, etc.

Material: Steel, galvanized

Type	D	L	Order No.
EPP 12EC	9-12	70	1011230201
EPP 16EC	13-16	70	1011230202
EPP 20EC	17-20	70	1011230203
EPP 24EC	21-24	70	1011230204
EPP 28EC	25-28	70	1011230205
EPP 32EC	29-32	70	1011230206
EPP 36EC	33-36	70	1011230207
EPP 40EC	37-40	70	1011230208
EPP 44EC	41-44	70	1011230209
EPP 48EC	45-48	70	1011230210
EPP 52EC	49-52	70	1011230211
EPP 56EC	53-56	70	1011230212
EPP 60EC	57-60	70	1011230213
EPP 64EC	61-64	70	1011230214
EPP 70EC	65-70	70	1011230215
EPP 76EC	71-76	70	1011230216
EPP 82EC	77-82	100	1011230217
EPP 88EC	83-88	100	1011230218
EPP 94EC	89-94	100	1011230219
EPP 100EC	95-100	100	1011230220
EPP 110EC	101-110	100	1011230221
EPP 120EC	111-120	100	1011230222

Dimensions are in Millimetres

B
20



E.P.P-DB (Double Bed)

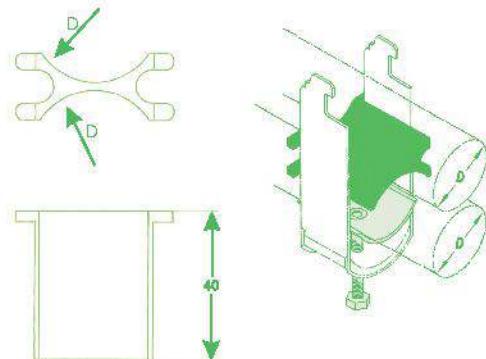
Type	D	Order No.
EPP 14DB	9-14	1011230301
EPP 22DB	15-22	1011230302
EPP 30DB	23-30	1011230303
EPP 38DB	31-38	1011230304
EPP 46DB	39-38	1011230305
EPP 56DB	49-56	1011230306

Dimensions are in Millimetres

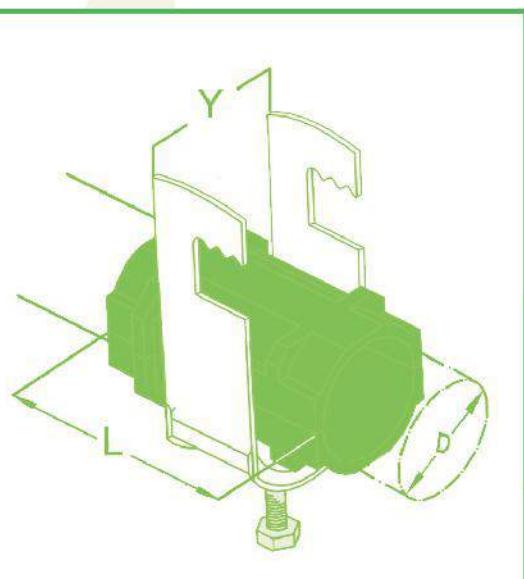
To distribute the compression when several cables are being installed under one clamp.

Material: Polypropylene, Polystyrene

Color: Black, Light grey (RAL 7035)



E.P.P-B-HW



Type	D	Y	L	Order No.
EPP 20-1/2" HW	17(1/2")	20	55	1011230307
EPP 32-7/8" HW	29(5/8")	32	60	1011230308
EPP 44-1 1/4" HW	39(1 1/4")	44	60	1011230309
EPP 56-1 5/8" HW	51(1 5/8")	56	60	1011230310

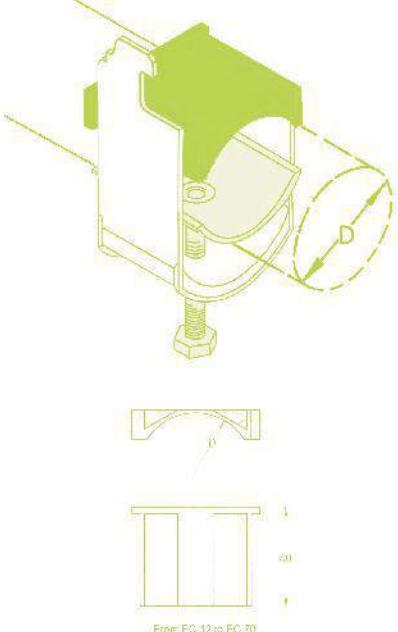
Dimensions are in Millimetres

Material: Polypropylene, Polystyrene

Color: Black, Light grey (RAL 7035)

E.P.P-**CB** (Counterbed)

Please always state the ordering number when ordering



To distribute the compression at the fixing point.

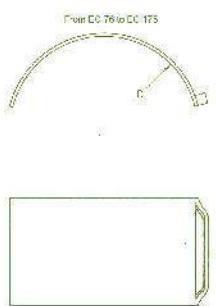
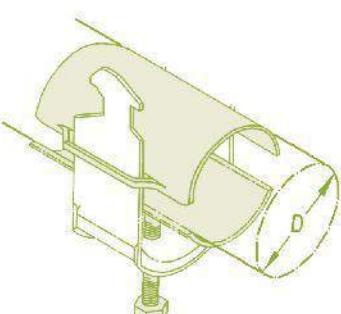
Material: Polypropylene, Polystyrene

Color: Black, Light grey (RAL 7035)

Type	D	Order No.
EPP 12CB	9-12	1011230401
EPP 16CB	13-16	1011230402
EPP 20CB	17-20	1011230403
EPP 24CB	21-24	1011230404
EPP 28CB	25-28	1011230405
EPP 32CB	29-32	1011230406
EPP 36CB	33-36	1011230407
EPP 40CB	37-40	1011230408
EPP 48CB	41-48	1011230409
EPP 56CB	49-56	1011230410
EPP 64CB	57-64	1011230411
EPP 70CB	65-70	1011230412

Dimensions are in Millimetres

B
22



Material: Steel, galvanized

Type	D	Order No.
EPP 76CB	71-76	1011230413
EPP 82CB	77-82	1011230414
EPP 88CB	83-88	1011230415
EPP 94CB	89-94	1011230416
EPP 100CB	95-100	1011230417
EPP 110CB	101-110	1011230418
EPP 120CB	111-120	1011230419
EPP 150CB	121-150	1011230420
EPP 175CB	151-175	

Dimensions are in Millimetres

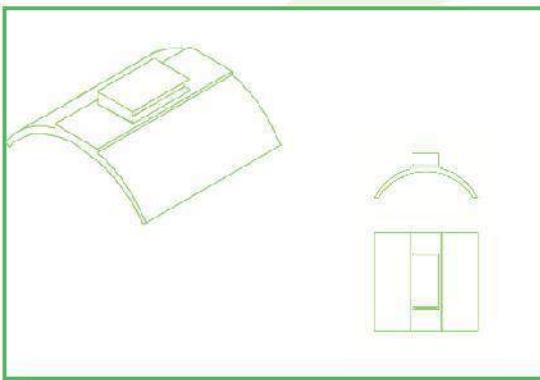
E.P.P-NIT

(New Insulating Trough)

Everlasting from through area-covering steel reinforcement with equal surface pressing

Material: Polypropylene, Polystyrene

Color: Black, Light grey (RAL 7035)



Type	Size	Order No.
EPP 12NIT	8-12	1011230501
EPP 16NIT	12-16	1011230502
EPP 20NIT	16-20	1011230503
EPP 24NIT	20-24	1011230504
EPP 28NIT	24-28	1011230505
EPP 32NIT	28-32	1011230506
EPP 36NIT	32-36	1011230507
EPP 40NIT	36-40	1011230508
EPP 44NIT	40-44	1011230509
EPP 48NIT	44-48	1011230510
EPP 52NIT	48-52	1011230511
EPP 56NIT	52-56	1011230512

Dimensions are in Millimetres

E.P.P-E CLIPS

Type	Size	Order No.
EPP EC 10	9-10	1011240102
EPP EC 12	11-12	1011240103
EPP EC 15	14-15	1011240104
EPP EC 18	17-18	1011240105
EPP EC 20	19-20	1011240106
EPP EC 22	21-22	1011240107
EPP EC 25	24-25	1011240108
EPP EC 28	27-28	1011240109
EPP EC 32	31-32	1011240110
EPP EC 35	34-35	1011240111
EPP EC 45	44-45	1011240112
EPP EC 50	49-50	1011240113
EPP EC 60	59-60	1011240114

Dimensions are in Millimetres

Metalic conduit clamp for holding and fastening all flexible metal conduits.

Easy, simple and quick assembly according to outside diameter of conduits for fastening with screws.

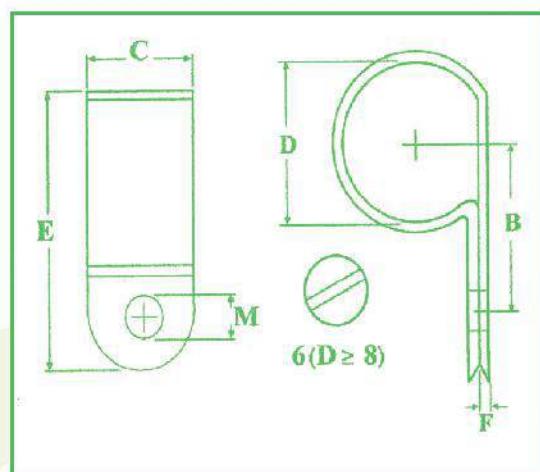
Material: Galvanized steel with black PVC liner



B
24

Type	M	C	D	E	F
EPP EC 10	6	15	9	31	0.8
EPP EC 12	6	15	11	33	0.9
EPP EC 15	6	15	14	37	0.9
EPP EC 18	6	15	17	42	0.9
EPP EC 20	6	15	19	44	0.9
EPP EC 22	6	15	21	47	1.0
EPP EC 25	6	15	24	49	1.0
EPP EC 28	6	15	27	52	1.0
EPP EC 32	6	15	31	57	1.0
EPP EC 35	6	15	34	59	1.0
EPP EC 45	6	15	44	72	1.0
EPP EC 50	6	15	49	81	1.0
EPP EC 60	6	15	59	96	1.0

Dimensions are in Millimetres



SADDLES

With plastic (therefore corrosion-proof) screws, with slotted hole for fixing with woodscrews or 5 mm knock-in fixings.

Material: Polypropylene

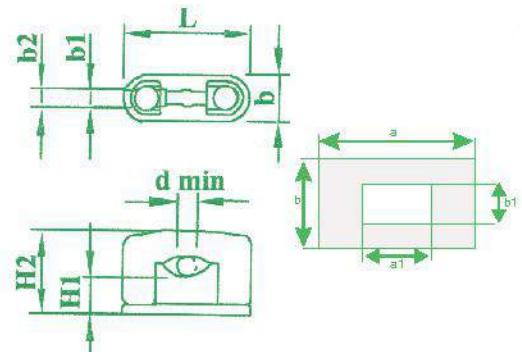
Color: Black, Light grey (RAL 7035)

Type	Clamping rang	Pack Qty	Carton Qty	Order No.
3079	5-14	150	3000	1011240201
3080	6-17	100	2000	1011240202
3081	15-25	50	1000	1011240203

Dimensions are in Millimetres

Type	L	d min	d max	H1	H2	H3	b	b1	b2	
3079	31	5	14	10.5	20	29	12	4.2	5	M5x14
3080	37	6	17	11	24.5	35.5	14	4	5.2	M6x18
3081	51	14	25	11.5	33	44	17	5	-	M6x23

Dimensions are in Millimetres



ROUND CONDUIT CLIP

Type	Pack Qty	Carton Qty	Order No.
EPP RCC 06	100	3000	1011240204
EPP RCC 08	100	3000	1011240205
EPP RCC 10	100	3000	1011240206

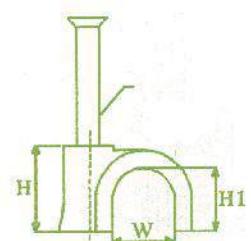
H	H1	W
8.5	6.5	5.5
10.5	8	7.5
12	10	9.5

Dimensions are in Millimetres

Round conduit clip
with fitted steel nail, galvanised, 109mmø

Material: Polyethylene, impact-proof, halogen-free

Color: White



INSULATING GRIP SADDLES

Screw-on type with grub screw

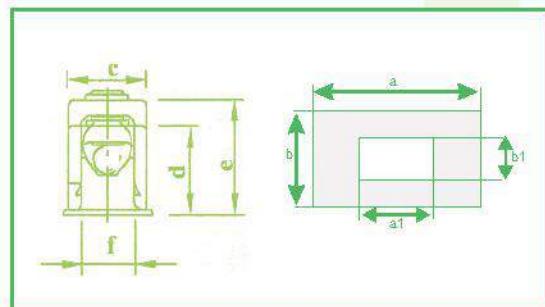
Material: Polystyrene, impact-proof, halogen-free

Color: White or light grey (RAL 7035)

Type	Clamp Range	Pack Qty	Carton Qty	Order No.
3040	6-16	100	2000	1011240301
3041	14-24	50	1000	1011240302
3042	14-34	25	500	1011240303

Type	a	a1	b	b1	c	d	e	f
3040	28	14	18	5	25	20	27	17
3041	35	20	22	4.2	37	36	44	31
3042	50	14	22	4.2	48	49	59	40

Dimensions are in Millimetres



PRESSURE SERIES SADDLES

Screw-on type with grub screw

Universal saddles clip to fix individual cable, wires and pipe.

Material: Polystyrene, impact-proof, halogen-free

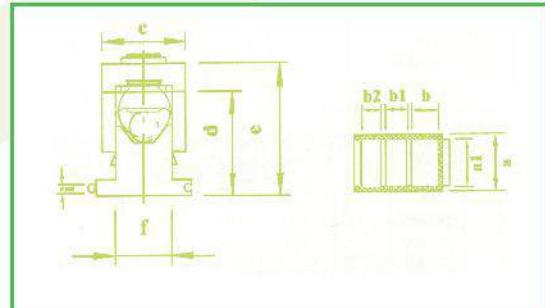
Color: White or light grey (RAL 7035)

Type	Cable Clamp	Pack Qty	Carton Qty	Order No.
3040B	6-16	100	2000	1011240304

Dimensions are in Millimetres

a	a1	b	b1	b2	c	d	e	f	I
18	12	7	4	5	24.5	30	35	16.5	3

Dimensions are in Millimetres



CABLE SPACERS

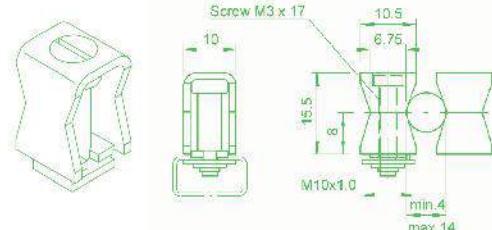
Also suitable for C-rails with 7.5 mm slot width.
Body of polystyrene, impact-resistant, halogen-free.
Metal parts of steel, electro-galvanised, or brass.

Material: Polystyrene

Color: Black, Light grey (RAL 7035)

Type	Clamp Range	Pack Qty	Carton Qty	Order No.
2049	4-14	100	3000	1011240401

Dimensions are in Millimetres



Accessories available

Profile rails

See Page: C5

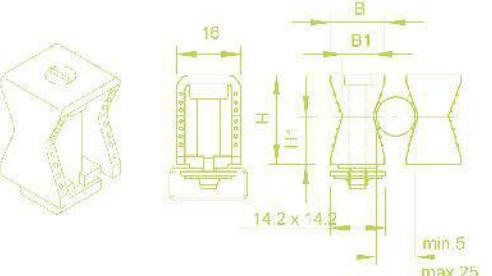
Also suitable for rails with 10-11 mm slot width.
Body of polystyrene, impact-resistant, halogen-free.
Metal parts of steel, electro-galvanised, or brass.

Material: Polystyrene

Color: Black, Light grey (RAL 7035)

Type	B	B1	H	H1	Screw
2050	14	8.5	23	12.5	M4x27
2050/B	17	8	26	12	M4x30

Dimensions are in Millimetres



Accessories available

Profile rails

See Page: C6-C7

Type	Clamp Range	Pack Qty	Carton Qty	Order No.
2050	6-25	100	3000	1011240402
2050/B	6-25	100	3000	1011240403

Dimensions are in Millimetres

CABLE SPACERS

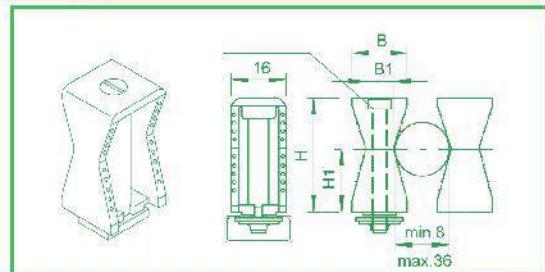
Also suitable for rails with 10-11 mm slot width.
Body of polystyrene, impact-resistant, halogen-free.
Metal parts of steel, electro-galvanised, or brass.

Material: Polystyrene

Color: Black, Light grey (RAL 7035)

Type	Clamp Range	Pack Qty	Carton Qty	Order No.
2051	8-36	100	2000	1011240501
2051/B	8-36	100	2000	1011240502

Dimensions are in Millimetres



Type	B	B1	H	H1
2051	16.5	8.5	34	19
2051/B	19	8	34.6	18

Dimensions are in Millimetres

Accessories available

Profile rails

See Page: C6-C7

B
28

Heavy duty

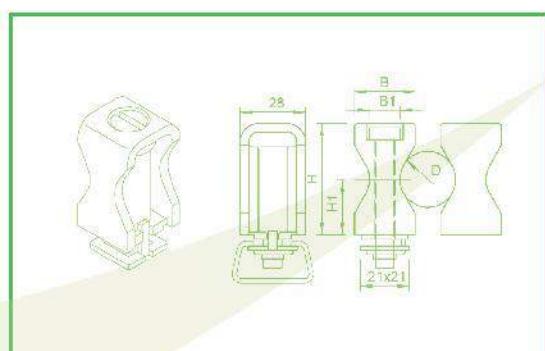
Also suitable for rails with 16-17 mm slot width.
Metal parts of steel, electro-galvanised. Screws and nuts in brass on request

Material: Polystyrene, Polyamide

Color: white, Light grey (RAL 7035)

Type	Clamp Range	Pack Qty	Carton Qty	Order No.
2054	14-48	45	450	1011240503
2055	24-72	25	250	1011240504

Dimensions are in Millimetres



Accessories available

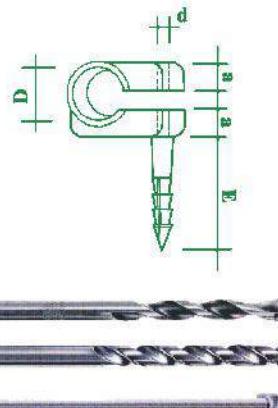
Profile rails

See Page: C7

Type	B	B1	H	H1	Screw
2054	26	13	48	24	M8x55
2055	38	15	70	35	M8x75

Dimensions are in Millimetres

EPP QUICK CLIP

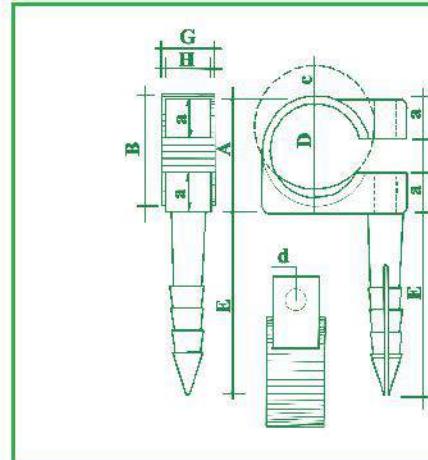


*IN = 1kg m/s²

Breaking loads are mean failure loads determined in at least five tests in uncracked building material.

The permissible load is calculated by dividing the breaking load by a safety factor of seven.

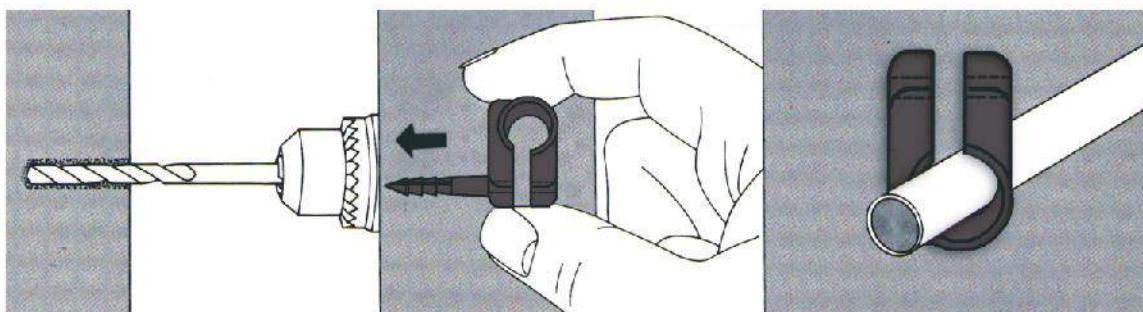
To select the proper size of an EPP quick clip, the outer diameter of the pipe or cable shall be between the quick clip range, for instance, for 4-core PVC insulated, PVC sheathed cable of an outer diameter of 15mm, the EPP quick clip size No.17 should be used.



A	a	B	C	D	d	G	H
12	5	12	1.5	9	4	10	8
15	6	13	1.5	11	4.5	12	10
18	7	15	1.5	14	5	12	10
21	7	19	2	17	5	13	10
22	8.5	21	2	19	5	13	11
24	10	24	2	22	5	13	11

Dimensions are in Millimetres

All you're got to do is to

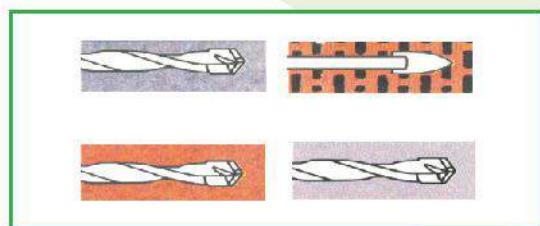
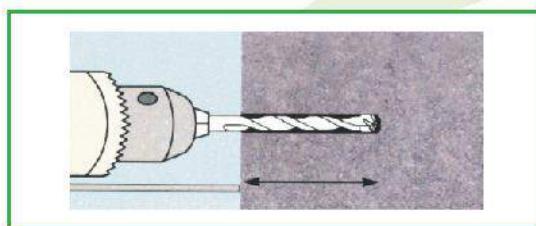
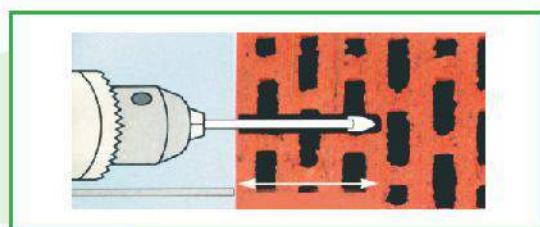
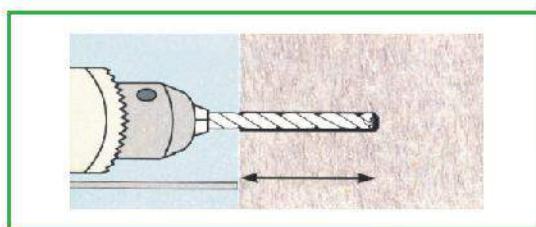


... drill

... plug

... and that's it

B
30



Size	Cable or Pipe outer dia. from - to	Permissible load capacity	Breaking load capacity
9	4-8	10	80
11	6-11	12	90
14	9-14	12	90
17	13-17	28	200
19	17-23	28	200
22	23-32	42	300

Dimensions are in Millimetres

- For installation of cable and pipes with diameters from 4 to 32 mm.
- Pipes of the same or different diameters can be bundled and aligned in one clip.
- Highly resistant to the effects of chemicals and condensation (an advantage when used in clamp areas, refrigerators, etc)
- Cables and pipes can be slotted through length ways.
- Neat and Clean appearance.
- Can be attached by any of variety of M bolts.
- High resistance to extremes of temperature.
- Perfectly suited for installing hot water pipes or conduits in refrigeration units.
- Using EPP Quick clips, there is no direct contact between metallic pipe and fixing surface, avoiding pipe corrosion.

Type	Size	Screw Nominal Size	Pack Qty	Carton Qty	Order No.
QC 9	9	1.5x6	90	1800	1011240601
QC 11	11	2x8	90	1800	1011240602
QC 14	14	2x8	90	1800	1011240603
QC 17	17	2.5x10	90	1800	1011240604
QC 19	19	2.5x10	90	1800	1011240605
QC 22	22	2.5x10	90	1800	1011240606

Dimensions are in Millimetres

TWIST TIE

Material: Nylon 66 (Available in polypropylene or polyethylene)

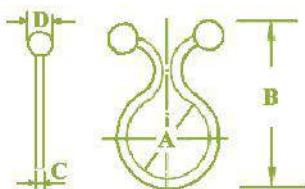
- Colours available upon request.
- Tie-up cables at economical cost.
- open the ties to feed cable and twist on to fix.

Type	Pack Qty	Bundls Diameter	Order No.
EPP 15-98	1000	13-16.5	1011240701

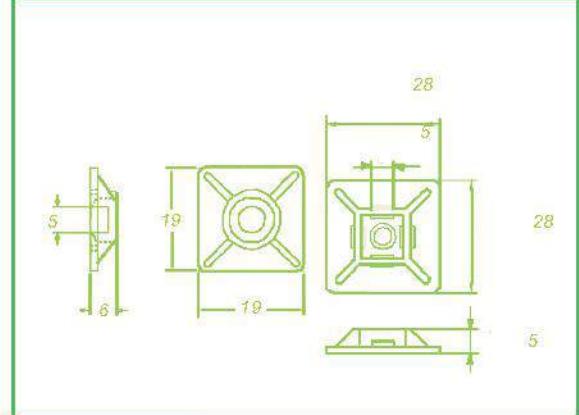
Dimension

A	B	C	D
15	34	2	5.8

Dimensions are in Millimetres



SELF ADHESIVE TIE MOUNT



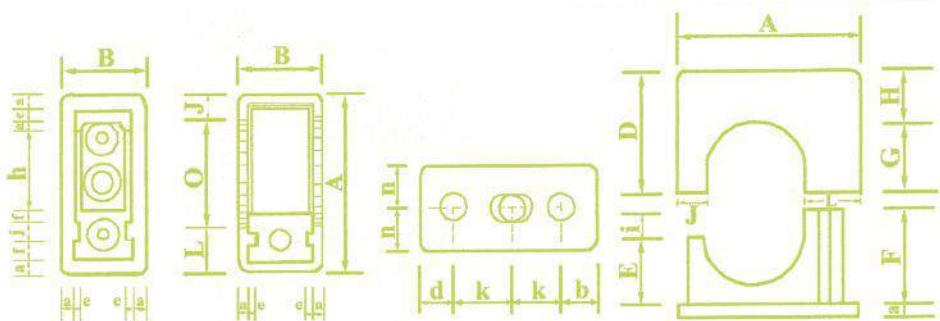
Material: Nylon 66 (Backed with adhesive tape)

- Self-adhesive tie mount is designed to support light weight wire bundles when properly applied on any clean smooth, grease-free surface.
- For heavy support, mounting hole is provided for screws.
- To apply, simply peel off backing paper and apply mount to surface. After that, cable tie can be inserted to secure wire bundles.

Color: white

Type	Pack Qty	Carton Qty	Order No.
PB - 101	100	3000	1011240702
PB - 102	100	3000	1011240703

INSULATING SADDLES



B
32

Type	Cable Clamp	Pack Qty	Carton Qty	Order No.
2080/79	5-14	100	2000	1011240801

A	B	D	E	F	G	H	L	J	a
33	15	23	13	20	13	10	9	4	2.5

b	d	e	f	h	i	j	n	o
7.5	6.5	1	3	17	7	2	8	20

Dimensions are in Millimetres

Screw-on type with grub screw

Universal saddles clip to fix individual cable, wires and pipe

Material: Polystyrene, Polypropylene

Color: Black, light grey (RAL 7035)

TERMINAL END BRACKETS

Type	Pack Qty	Carton Qty	Order No.
EW 35	200	4000	1011240901

A	B	C	D	E	L	G
30	8	32	24.5	1.5	26.5	6

Dimensions are in Millimetres

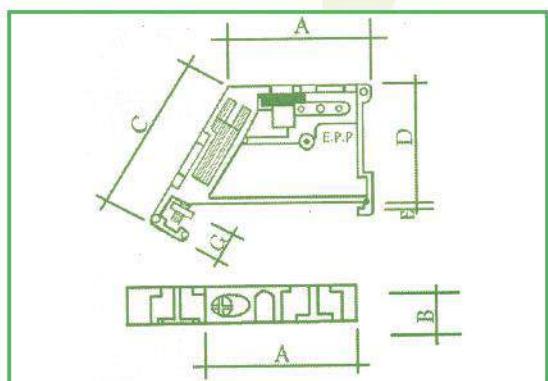
Material: Acrylonitrile Butadiene Styrene, Polyamide

Color: White, Black, Light grey (RAL 7035)

Accessories available

Profile rails

See Page: C3-C4



CABLE LABEL

Type	A	B	C	Pack Qty	Order No.
CLN	25	12	3	100	1011240902

Dimensions are in Millimetres

Material: Acrylonitrile Butadiene Styrene

color: Various Colors



RAL 7001

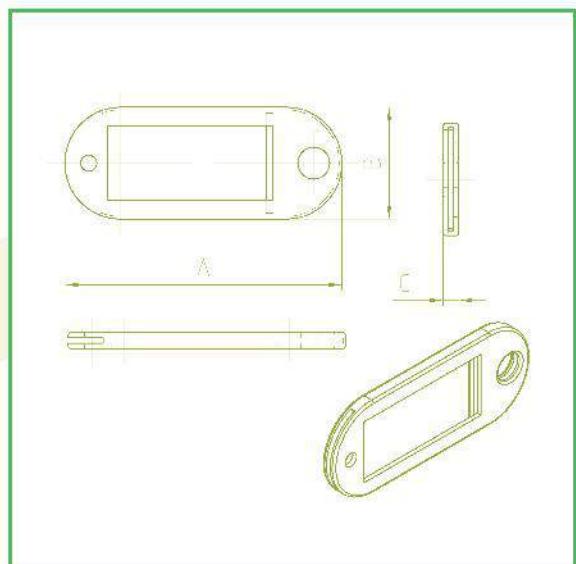
RAL 1003

RAL 9005

RAL 5015

RAL 9003

RAL 3020

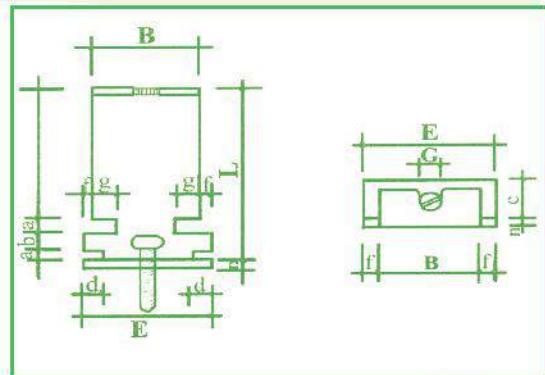


LONG TERMINAL END BRACKETS

Type	Pack Qty	Order No.
EW 37	200	1011241001

A	B	C	D	E	G	L	a	b	e	f	g	n	o
28	22	11	10	27	5	40	3	4	3	2	5	1.5	10

Dimensions are in Millimetres



Material: Steel

Surface: Yellow-Chromated, Galvanised

Accessories available

Profile rails

See Page: C5

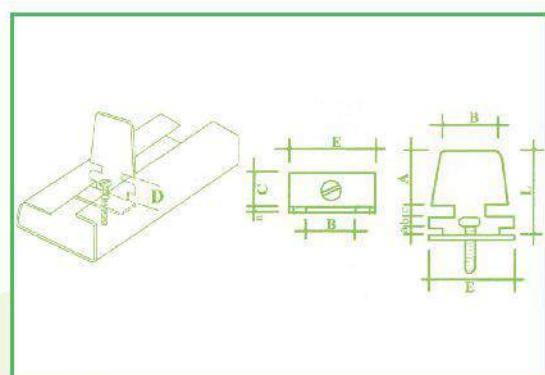
B
34

SHORT TERMINAL END BRACKETS

Type	Pack Qty	Order No.
EW 38	250	1011241011

A	B	C	D	E	L	a	b	e	n
17	17	11	10	27	28	3	4	3	1.5

Dimensions are in Millimetres



Material: Steel

Surface: Yellow-Chromated, Galvanised

Accessories available

Profile rails

See Page: C5