

norelem controls

Electromechanical

80000

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+ New/Expanded Items

80000

Connectors Energy chains



41000

82000

83000

84000

85000

95000

96000

97000



A-Z

Connectors

self-assembly with screw fitting



Material:

Housing, plastic

Contacts M8x1 gold-plated bronze.

Contacts M12x1 Optaloy-coated brass.

Version:

Bush (female)

Voltage: U max. 60 V

Current: I max. 4 A

Terminals: 3-pin (4-pin by M12x1)

Security type: IP 67

Sample order:

nIm 80100-010

Note:

Plug connector for self-assembly with screw lock.

Temperature range:

-25 °C to +85 °C

Drawing reference:

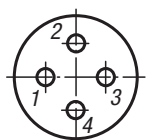
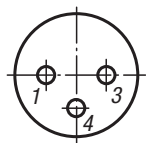
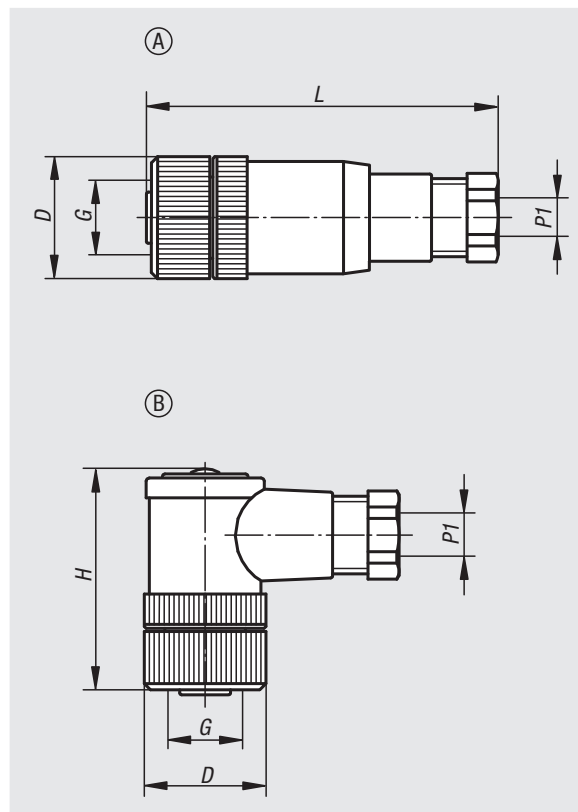
P1 = cable outlet

1 = brown (BN)

2 = white (WH)

3 = blue (BU)

4 = black (BK)



Order No.	Form	D	G	H	L	P1	connection type	Connection cross-section max. (mm ²)
80100-010	A	12	M8x1	-	45	3,5 - 5	screw connection	0,5
80100-020	A	20	M12x1	-	54	4 - 6	screw connection	0,75
80100-030	B	12	M8x1	28	-	3,5 - 5	soldered connection	0,25
80100-040	B	20	M12x1	38	-	4 - 6	screw connection	0,75

Connectors

with screw fitting



Material:
Cable and housing PUR
Contacts gold-plated bronze.

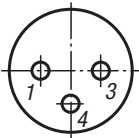
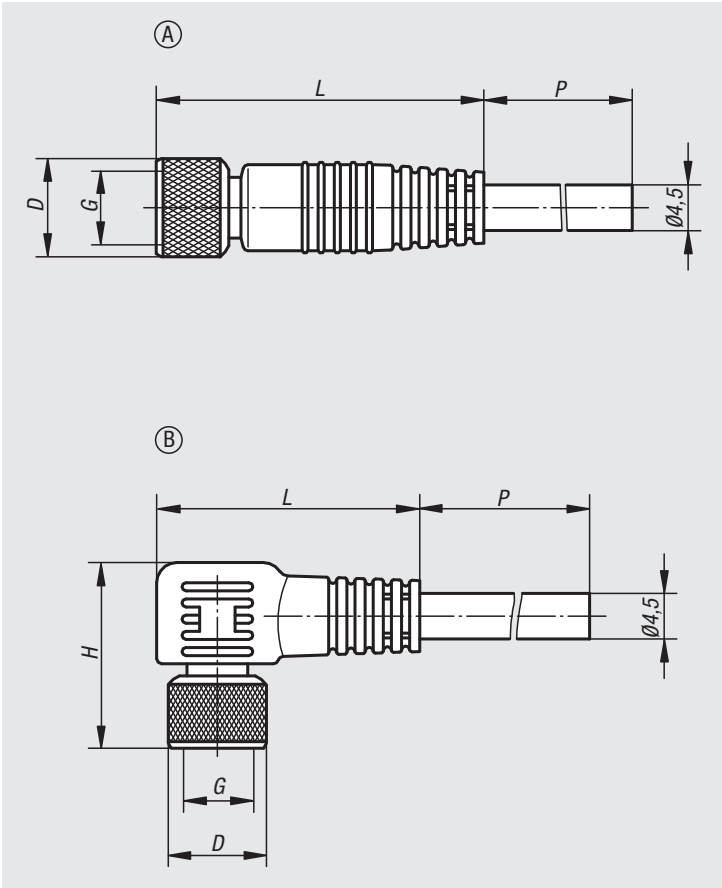
Version:
Bush (female)
Voltage: U max. 60 V
Current: I max. 4 A
Terminals: 3-pin
Security type: IP 67

Sample order:
nIm 80150-010X2000

Note:
Plug connector with screw fitting.
Plug encapsulated to cable.

Temperature range:
-25 °C to +70 °C

Drawing reference:
1 = brown (BN)
3 = blue (BU)
4 = black (BK)



Order No.	Form	D	H	G	L	P	No. of conductors x conductor cross-section
80150-010X2000	A	9,7	-	M8x1	32	2000	3 x 0,25 mm²
80150-020X2000	A	14,5	-	M12x1	41,5	2000	3 x 0,34 mm²
80150-030X2000	B	9,7	18,2	M8x1	26	2000	3 x 0,25 mm²
80150-040X2000	B	14,5	26,5	M12x1	38,5	2000	3 x 0,34 mm²

Connectors

with screw fitting



Material:

Cable sheath and housing PVC.

Version:

Bush (female)
Voltage: Ue 30 V
Current: Ie 2 A
No. of pins: 8 or 12
No. of wires: 8 or 12
Rating: IP 67
Grip body: black
Cable: grey

Sample order:

nIm 80150-10-1208X2500

Note:

Connector with screw lock.
Connector moulded to cable.
Wires colour coded acc. to DIN 47100.
Coding A.
Limited dragchain compatibility.
Recommended tightening torque: 1.0 Nm.

Temperature range:

Moving: 0 °C to +80 °C
Fixed: -25 °C to +80 °C

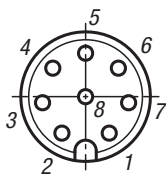
Features:

Form A: bush straight
Form B: bush angled

Drawing reference:

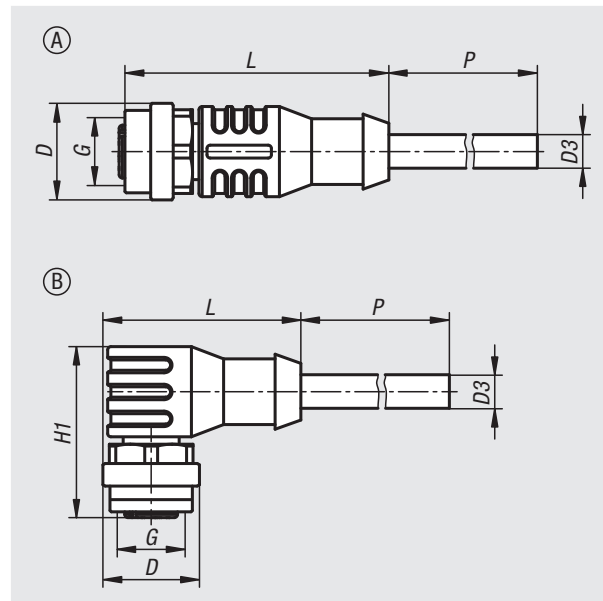
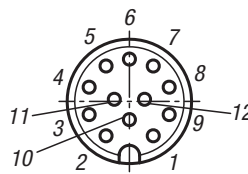
8 pin:

- 1) White (WH)
- 2) Brown (BN)
- 3) Green (GN)
- 4) Yellow (YE)
- 5) Grey (GY)
- 6) Pink (PK)
- 7) Blue (BU)
- 8) Red (RD)



12 pin:

- 1) Brown (BN)
- 2) Blue (BU)
- 3) White (WH)
- 4) Green (GN)
- 5) Pink (PK)
- 6) Yellow (YE)
- 7) Black (BK)
- 8) Grey (GY)
- 9) Red (RD)
- 10) Violet (VT)
- 11) Grey-Pink (GY/PK)
- 12) Red-Blue (RD/BU)



Order No.	Form	Version 2	D	D3	G	H1	L	P
80150-10-1208X2500	A	8-pin	14,5	6	M12x1	-	41,5	2500
80150-10-1208X5000	A	8-pin	14,5	6	M12x1	-	41,5	5000
80150-10-1208X10000	A	8-pin	14,5	6	M12x1	-	41,5	10000
80150-10-1212X10000	A	12-pin	15	6	M12x1	-	41,9	10000
80150-10-11208X10000	B	8-pin	15	6	M12x1	26,4	39	10000
80150-10-11212X10000	B	12-pin	15	6	M12x1	26,4	39	10000

Energy chains, plastic

inner height 12 mm, closed



Material:

Polyamide fibreglass reinforced.

Version:

Black. Closed.

Sample order:

nln 80850-120120180

Note:

Energy supply chains for safe guiding of flexible electric and data cables as well as pneumatic and hydraulic hoses. The modularly constructed chains can be easily shortened or extended.

The material is UV-resistant and therefore also suitable for outdoor applications.

Temperature range:

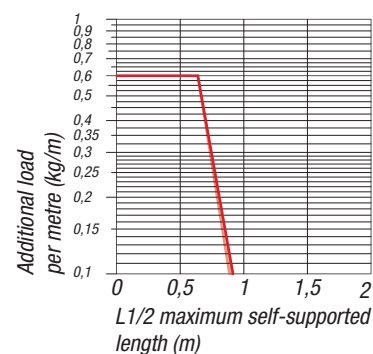
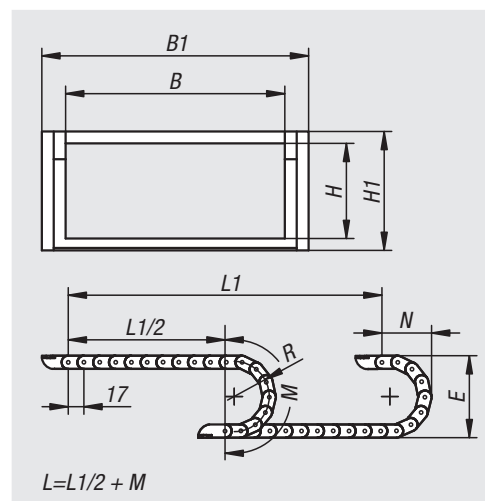
-30°C to +125°C

Technical data:

Technical features in unsupported areas:

Speed: 10 m/s

Acceleration: 50 m/s²



Order No.	B	B1	H	H1	L	E	M	N	R	No. of links	Approx. weight kg/m	Connecting element
80850-120120180	12	18	12	15	1003	51	95	45	18	59	0,13	80850-01-12012

Connecting element, plastic

for energy chains, inner height 12 mm


Material:

Polyamide fibreglass reinforced.

Version:

Black.

Sample order:

nln 80850-01-12012

Note for ordering:

The connecting elements are supplied in pairs.

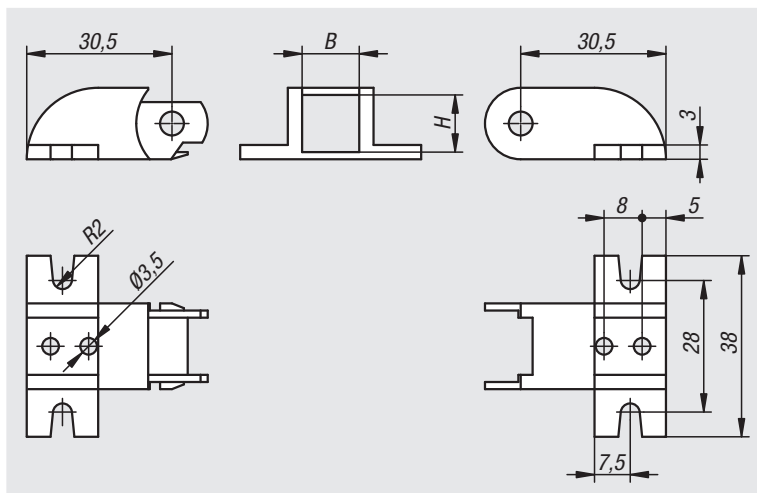
Note:

The connecting elements are used to attach the two ends of the energy supply chain to the installation.

The connecting elements are connected on the outer radius.

Temperature range:

-30°C to +125°C



Order No.	B	H	Suitable for
80850-01-12012	12	12	80850-120120180

Energy chains, plastic

inner height 17 mm, openable along inner radius



Material:

Polyamide fibreglass reinforced.

Version:

Black. Openable along inner radius.

Sample order:

n1m 80850-10-170250281

Note:

Energy supply chains for safe guiding of flexible electric and data cables as well as pneumatic and hydraulic hoses. The modularly constructed chains can be easily shortened or extended.

The material is UV-resistant and therefore also suitable for outdoor applications.

Temperature range:

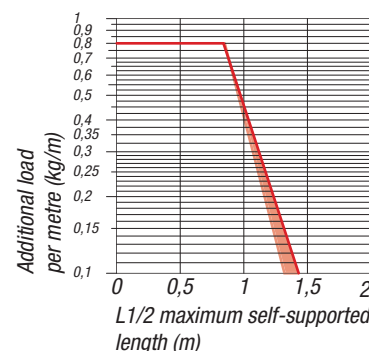
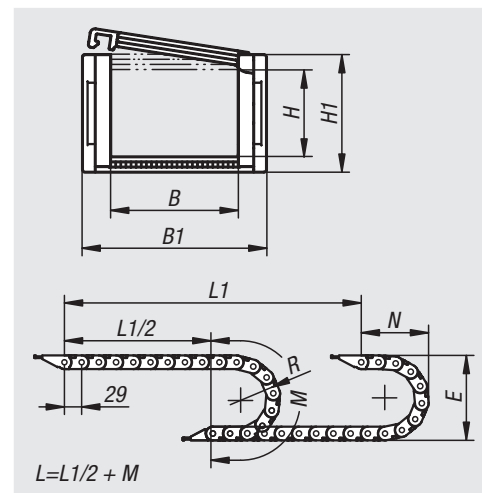
-30°C to +125°C

Technical data:

Technical features in unsupported areas:

Speed: 10 m/s

Acceleration: 50 m/s²



Order No.	B	B1	H	H1	L	E	M	N	R	No. of links	Approx. weight kg/m
80850-10-170250381	25	36	17	23	986	99	177	78,5	38	34	0,37
80850-10-170500281	50	61	17	23	986	79	146	68,5	28	34	0,43
80850-10-170500601	50	61	17	23	986	143	246	100,5	60	34	0,43
80850-10-170250601	25	36	17	23	986	143	246	100,5	60	34	0,37
80850-10-170500381	50	61	17	23	986	99	177	78,5	38	34	0,43
80850-10-170250281	25	36	17	23	986	79	146	68,5	28	34	0,37

Order No.	Connecting element	Tension relief	Divider
80850-10-170250381	80850-11-17025	integrated in connection element	80850-12-17
80850-10-170500281	80850-11-17050	integrated in connection element	80850-12-17
80850-10-170500601	80850-11-17050	integrated in connection element	80850-12-17
80850-10-170250601	80850-11-17025	integrated in connection element	80850-12-17
80850-10-170500381	80850-11-17050	integrated in connection element	80850-12-17
80850-10-170250281	80850-11-17025	integrated in connection element	80850-12-17

Connecting elements, plastic

for energy chains, inner height 17 mm


Material:

Polyamide fibreglass reinforced.

Version:

Black.

Sample order:

nln 80850-11-17050

Note for ordering:

The connecting elements are supplied in pairs.

Note:

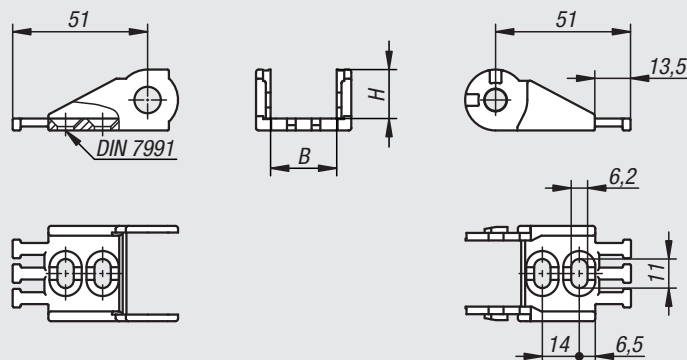
The connecting elements are used to attach the two ends of the energy supply chain to the installation. Tension relief is integrated into the connecting element.

The connecting elements are connected on the outer radius.

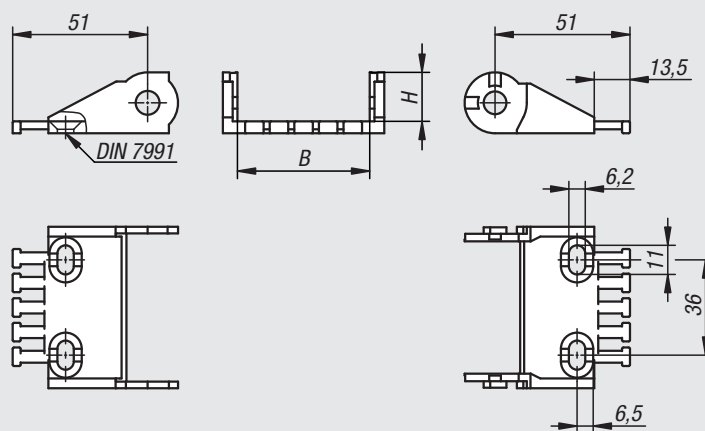
Temperature range:

-30°C to +125°C

80850-11-17025



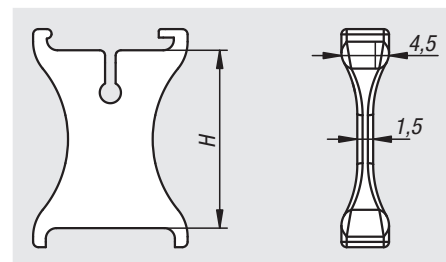
80850-11-17050



Order No.	B	H	Suitable for
80850-11-17025	25	17	80850-10-17025...
80850-11-17050	50	17	80850-10-17050...

Separator, plastic

for energy chains, inner height 17 mm

**Material:**

Polyamide fibreglass reinforced.

Version:

Black.

Sample order:

nlm 80850-12-17

Note:

Spacers to separate the cables inside the chain. The spacers can be moved within the chain link. Normally, these are fitted into every second chain link.

Temperature range:

-30°C to +125°C



Order No.

H

Suitable for

80850-12-17

17

80850-10-...

Energy chains, plastic

inner height 25 mm, openable along inner radius



Material:

Polyamide fibreglass reinforced.

Version:

Black. Openable along inner radius.

Sample order:

nln 80850-20-250400501

Note:

Energy supply chains for safe guiding of flexible electric and data cables as well as pneumatic and hydraulic hoses. The modularly constructed chains can be easily shortened or extended.

The material is UV-resistant and therefore also suitable for outdoor applications.

Temperature range:

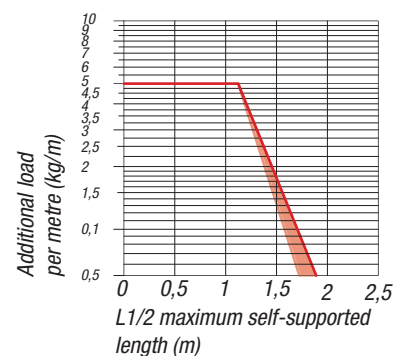
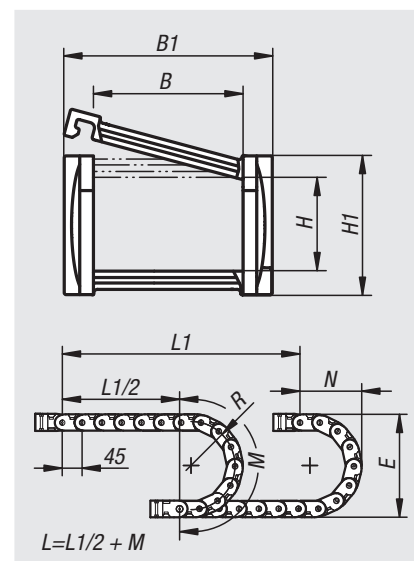
-30°C to +125°C

Technical data:

Technical features in unsupported areas:

Speed: 10 m/s

Acceleration: 50 m/s²



Order No.	B	B1	H	H1	L	E	M	N	R	No. of links
80850-20-250400501	40	57	25	38	990	138	250	115	50	22
80850-20-250400751	40	57	25	38	990	188	325	140	75	22
80850-20-250401001	40	57	25	38	990	238	405	165	100	22
80850-20-250600501	60	77	25	38	990	138	250	115	50	22
80850-20-250600751	60	77	25	38	990	188	325	140	75	22
80850-20-250601001	60	77	25	38	990	238	405	165	100	22
80850-20-251030501	103	120	25	38	990	138	250	115	50	22
80850-20-251030751	103	120	25	38	990	188	325	140	75	22
80850-20-251031001	103	120	25	38	990	238	405	165	100	22

Order No.	Approx. weight kg/m	Connecting element	Tension relief	Divider
80850-20-250400501	0,9	80850-21-25040	80850-23-25	80850-22-25
80850-20-250400751	0,9	80850-21-25040	80850-23-25	80850-22-25
80850-20-250401001	0,9	80850-21-25040	80850-23-25	80850-22-25
80850-20-250600501	0,95	80850-21-25060	80850-23-25	80850-22-25
80850-20-250600751	0,95	80850-21-25060	80850-23-25	80850-22-25
80850-20-250601001	0,95	80850-21-25060	80850-23-25	80850-22-25
80850-20-251030501	1,15	80850-21-25103	80850-23-25	80850-22-25
80850-20-251030751	1,15	80850-21-25103	80850-23-25	80850-22-25
80850-20-251031001	1,15	80850-21-25103	80850-23-25	80850-22-25

Connecting elements, plastic

for energy chains, inner height 25 mm


Material:

Polyamide fibreglass reinforced.

Version:

Black.

Sample order:

nIm 80850-21-25040

Note for ordering:

The connecting elements are supplied in pairs.

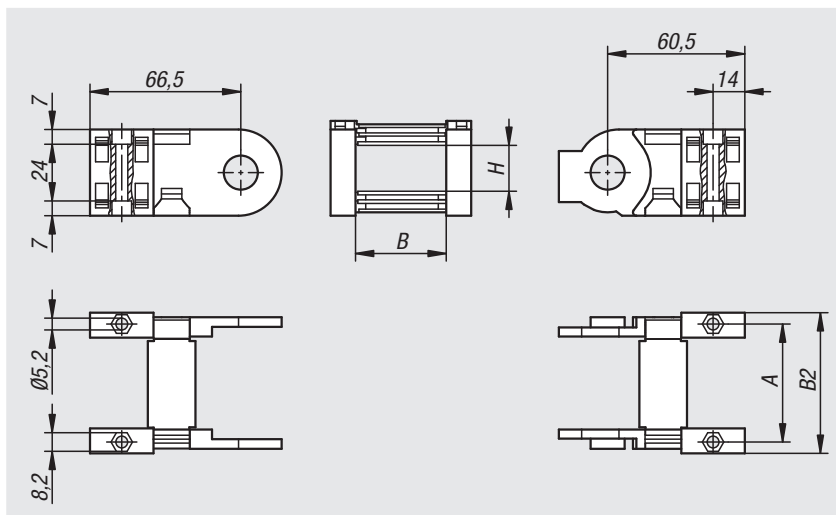
Note:

The connecting elements are used to attach the two ends of the energy supply chain to the installation.

The connecting elements are connected on the outer or inner radius.

Temperature range:

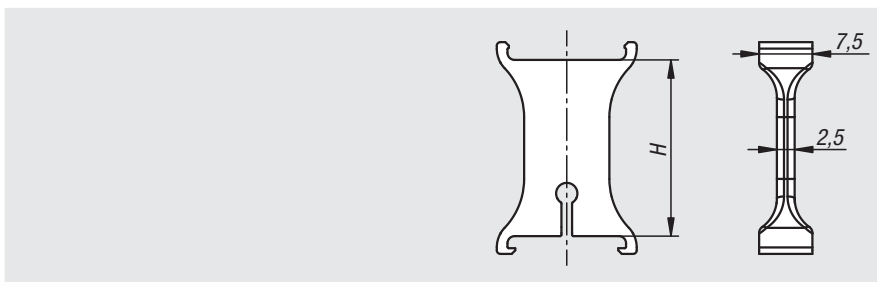
-30°C to +125°C



Order No.	A	B	B2	H	Suitable for
80850-21-25040	51	40	61	25	80850-20-25040...
80850-21-25060	71	60	81	25	80850-20-25060...
80850-21-25103	114	103	124	25	80850-20-25103...

Separator, plastic

for energy chains, inner height 25 mm


Material:

Polyamide fibreglass reinforced.

Version:

Black.

Sample order:

nIm 80850-22-25

Note:

Spacers to separate the cables inside the chain. The spacers can be moved within the chain link. Normally, these are fitted into every second chain link.

Temperature range:

-30°C to +125°C

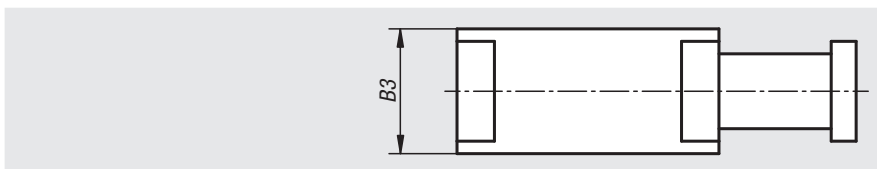


Order No.	H	Suitable for
80850-22-25	25	80850-20-...

80850-23

Tension relief, plastic

for energy chains, inner height 25 mm


Material:

Polyamide fibreglass reinforced.

Version:

Black.

Sample order:

nIm 80850-23-25

Note:

The tension relief can be clipped into the connecting element on the inner or outer radius. These fixate the position of the routed cables at the chain ends.

Temperature range:

-30°C to +125°C



Order No.	B3	Suitable for
80850-23-25	10	80850-20-...

Energy chains, plastic

inner height 35 mm, openable along inner radius



Material:

Polyamide fibreglass reinforced.

Version:

Black. Openable along inner radius.

Sample order:

nIm 80850-30-350760651

Note:

Energy supply chains for safe guiding of flexible electric and data cables as well as pneumatic and hydraulic hoses. The modularly constructed chains can be easily shortened or extended.

The material is UV-resistant and therefore also suitable for outdoor applications.

Temperature range:

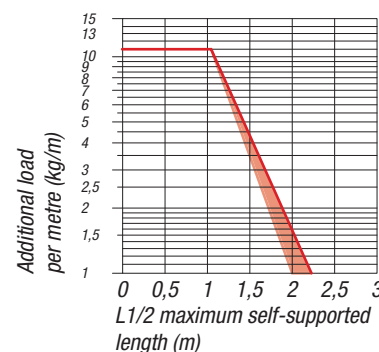
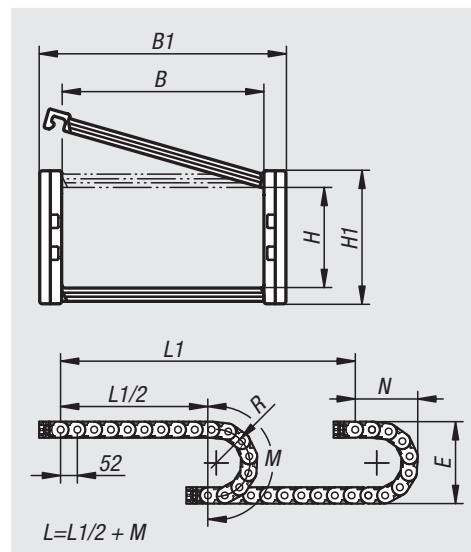
-30°C to +125°C

Technical data:

Technical features in unsupported areas:

Speed: 10 m/s

Acceleration: 50 m/s²



Order No.	B	B1	H	H1	L	E	M	N	R	No. of links
80850-30-350760651	76	92,5	35	50	1040	180	310	169	65	20
80850-30-350761001	76	92,5	35	50	1040	250	420	204	100	20
80850-30-350761501	76	92,5	35	50	1040	350	580	254	150	20
80850-30-351030651	103	119,5	35	50	1040	180	310	169	65	20
80850-30-351031001	103	119,5	35	50	1040	250	420	204	100	20
80850-30-351031501	103	119,5	35	50	1040	350	580	254	150	20
80850-30-351500651	150	166,5	35	50	1040	180	310	169	65	20
80850-30-351501001	150	166,5	35	50	1040	250	420	204	100	20
80850-30-351501501	150	166,5	35	50	1040	350	580	254	150	20

Order No.	Approx. weight kg/m	Connecting element	Tension relief	Divider
80850-30-350760651	1,22	80850-31-35076	80850-33-35076	80850-32-35
80850-30-350761001	1,22	80850-31-35076	80850-33-35076	80850-32-35
80850-30-350761501	1,22	80850-31-35076	80850-33-35076	80850-32-35
80850-30-351030651	1,32	80850-31-35103	80850-33-35103	80850-32-35
80850-30-351031001	1,32	80850-31-35103	80850-33-35103	80850-32-35
80850-30-351031501	1,32	80850-31-35103	80850-33-35103	80850-32-35
80850-30-351500651	1,5	80850-31-35150	80850-33-35150	80850-32-35
80850-30-351501001	1,5	80850-31-35150	80850-33-35150	80850-32-35
80850-30-351501501	1,5	80850-31-35150	80850-33-35150	80850-32-35

Connecting elements, plastic

for energy chains, inner height 35 mm


Material:

Polyamide fibreglass reinforced.

Version:

Black.

Sample order:

nlm 80850-31-35076

Note for ordering:

The connecting elements are supplied in pairs.

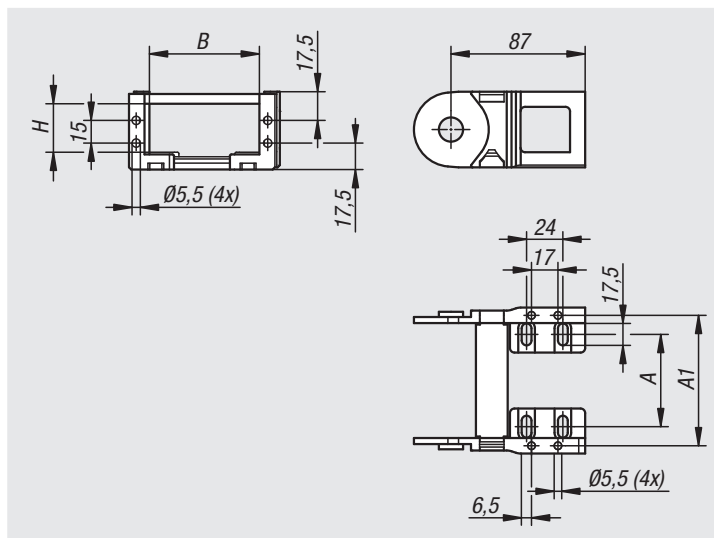
Note:

The connecting elements are used to attach the two ends of the energy supply chain to the installation.

The connecting elements are connected on the outer or inner radius.

Temperature range:

-30°C to +125°C



Order No.	A	A1	B	H	Suitable for
80850-31-35076	61	87	76	35	80850-30-35076...
80850-31-35103	88	114	103	35	80850-30-35103...
80850-31-35150	135	161	150	35	80850-30-35150...

Separator, plastic

for energy chains, inner height 35 mm


Material:

Polyamide fibreglass reinforced.

Version:

Black.

Sample order:

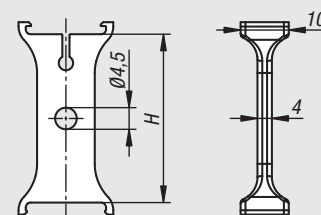
nIm 80850-32-35

Note:

Spacers to separate the cables inside the chain. The spacers can be moved within the chain link. Normally, these are fitted into every second chain link.

Temperature range:

-30°C to +125°C



Order No.	H	Suitable for
80850-32-35	35	80850-30-...

80850-33

Tension relief, plastic

for energy chains, inner height 35 mm


Material:

Polyamide fibreglass reinforced.

Version:

Black.

Sample order:

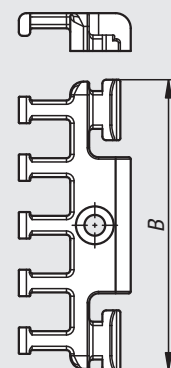
nIm 80850-33-35076

Note:

The tension relief can be clipped into the connecting element. These fixate the position of the routed cables at the chain ends.

Temperature range:

-30°C to +125°C



Order No.	B	Suitable for
80850-33-35076	76	80850-30-35076...
80850-33-35103	103	80850-30-35103...
80850-33-35150	150	80850-30-35150...

Energy chains, plastic

inner height 45 mm, openable from both sides



Material:

Polyamide fibreglass reinforced.

Version:

Black. Openable from both sides.

Sample order:

nln 80850-90-451001003

Note:

Energy supply chains for safe guiding of flexible electric and data cables as well as pneumatic and hydraulic hoses. The modularly constructed chains can be easily shortened or extended.

The material is UV-resistant and therefore also suitable for outdoor applications.

Temperature range:

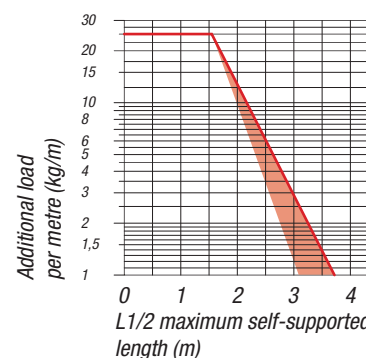
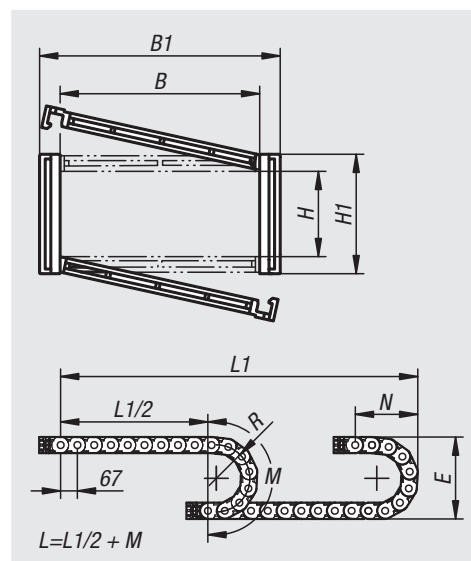
-30°C to +125°C

Technical data:

Technical features in unsupported areas:

Speed: 10 m/s

Acceleration: 50 m/s²



Order No.	B	B1	H	H1	L	E	M	N	R	No. of links
80850-90-451001003	100	122	45	64	1005	264	450	200	100	15
80850-90-451001503	100	122	45	64	1005	364	605	250	150	15
80850-90-451002003	100	122	45	64	1005	464	765	300	200	15
80850-90-451501003	150	172	45	64	1005	264	450	200	100	15
80850-90-451501503	150	172	45	64	1005	364	605	250	150	15
80850-90-451502003	150	172	45	64	1005	464	765	300	200	15
80850-90-452001003	200	222	45	64	1005	264	450	200	100	15
80850-90-452001503	200	222	45	64	1005	364	605	250	150	15
80850-90-452002003	200	222	45	64	1005	464	765	300	200	15

Order No.	Approx. weight kg/m	Connecting element	Tension relief	Divider
80850-90-451001003	1,87	80850-91-45100	80850-93-45100	80850-92-45
80850-90-451001503	1,87	80850-91-45100	80850-93-45100	80850-92-45
80850-90-451002003	1,87	80850-91-45100	80850-93-45100	80850-92-45
80850-90-451501003	2,13	80850-91-451150	80850-93-45150	80850-92-45
80850-90-451501503	2,13	80850-91-451150	80850-93-45150	80850-92-45
80850-90-451502003	2,13	80850-91-451150	80850-93-45150	80850-92-45
80850-90-452001003	2,39	80850-91-451200	80850-93-45200	80850-92-45
80850-90-452001503	2,39	80850-91-451200	80850-93-45200	80850-92-45
80850-90-452002003	2,39	80850-91-451200	80850-93-45200	80850-92-45

Connecting elements, plastic

for energy chains, inner height 45 mm


Material:

Polyamide fibreglass reinforced.

Version:

Black.

Sample order:

nIm 80850-91-45100

Note for ordering:

The connecting elements are supplied in pairs.

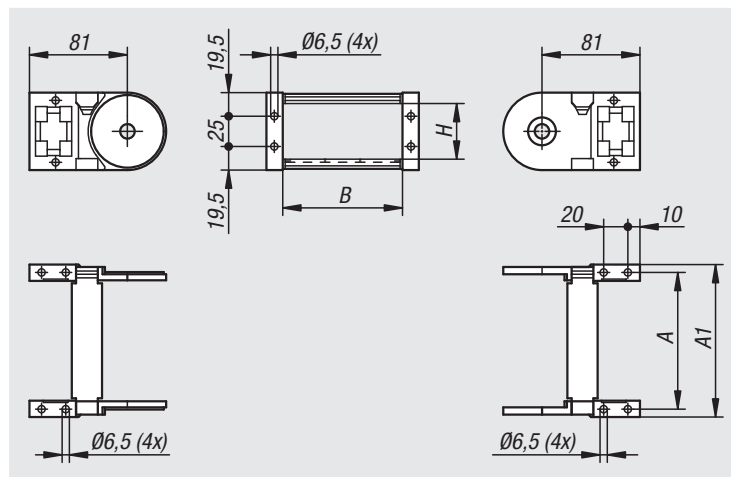
Note:

The connecting elements are used to attach the two ends of the energy supply chain to the installation.

The connecting elements are connected on the outer or inner radius.

Temperature range:

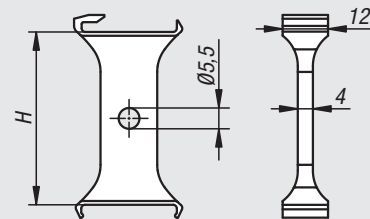
-30°C to +125°C



Order No.	A	A1	B	H	Suitable for
80850-91-45100	113	126	100	45	80850-90-45100...
80850-91-45150	163	176	150	45	80850-90-45150...
80850-91-45200	213	226	200	45	80850-90-45200...

Separator, plastic

for energy chains, inner height 45 mm


Material:

Polyamide fibreglass reinforced.

Version:

Black.

Sample order:

nlm 80850-92-45

Note:

Spacers to separate the cables inside the chain. The spacers can be moved within the chain link. Normally, these are fitted into every second chain link.

Temperature range:

-30°C to +125°C



Order No.	H	Suitable for
80850-92-45	45	80850-90-...

80850-93

Tension relief, plastic

for energy chains, internal height 45 mm


Material:

Polyamide fibreglass reinforced.

Version:

Black.

Sample order:

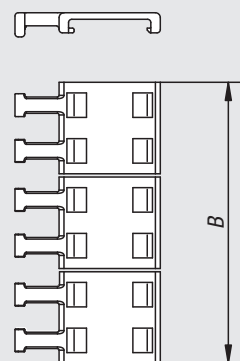
nlm 80850-93-45100

Note:

The tension relief can be clipped into the connecting element. These fixate the position of the routed cables at the chain ends.

Temperature range:

-30°C to +125°C



Order No.	B	Suitable for
80850-93-45100	100	80850-90-45100...
80850-93-45150	150	80850-90-45150...
80850-93-45200	200	80850-90-45200...