

# High-performance connector for docking applications

#### **DuraDock power**

ΕN



#### STÄUBLI ELECTRICAL CONNECTORS

## Connections for Life



Stäubli, as the international technology leader, offers innovative mechatronics solutions in its four divisions: Electrical Connectors, Fluid Connectors, Robotics, and Textile. At Stäubli Electrical Connectors, we develop advanced connection solutions based on the reliable MULTILAM contact technology.

We create connections for life - and our customers are at the center of these connections. We are convinced that solid and stable partnerships directly contribute to our mutual success.

We take on the needs of our partners and deal with the most extraordinary challenges. As a result, we always create, sell and

support reliable and long-lasting products for markets with the highest productivity and safety requirements in close cooperation with our customers.

## Together for reliable and safe connec-

We know that you entrust us with the functionality of your applications and we work hard to ensure this every single day. Thanks to our high level of expertise, our extensive experience and the multiple successful co-operation with our partners, numerous new developments have originated at Stäubli Electrical Connectors and subsequently have become worldwide standards. This includes our MC4 connector portfolio for which we are today the global market leader in photovoltaic. As the Stäubli original, the MC4 represents the result of our constant quest for innovation, quality and safety.

Further examples are the CombiTac modular connector system or the Quick Charging Connector (QCC) for automatic charging systems.

We ensure connections for life together with our long-standing customers in a wide range of industries from renewable energies, power transmission and distribution and E-mobility to industrial automation applications, railway and welding automation, test and measurement and medical devices.

Thus, developing reliable, efficient and safe solutions based on our proven MULTILAM contact technology, which guarantees a high service lifetime in addition to highly efficient power transmission.

# Applications and benefits



Automated industrial applications with high mating cycles require constant and safe power transmission, especially for high currents and voltages. Stäubli delivers suitable high-performance connectors for advanced automation technology.

DuraDock power single-pole connectors were developed for the safe transmission of the highest energies and currents. They were designed for test applications with up to 100,000 mating cycles, where the highest service life, reliability, and safety are critical.

#### Areas of application

The connectors are suitable for a variety of industrial applications, e.g., in E-mobility, railways, and mechanical engineering.

#### Your benefits:

- Unparalleled advanced contact reliability thanks to MULTILAM contact technology
- Robust, reliable and user-friendly up to 100,000 mating cycles
- · High current-carrying capacity with minimal contact resistance for a long life span
- · Numerous possible combinations with the other connectors of the DuraDock multi series (four sizes with up to 72 poles) for almost all applications.

#### Test systems:

- · Automatic docking in test benches and production processes
- · Test bench technology in E-mobility and battery production
- · Test benches for wind turbines

#### Manufacturing:

• Test systems for in-line testing with high currents

#### Plant engineering:

- · Interface in manufacturing modules of modular production lines
- · Docking station to supply moving machines, for example, mobile melting furnaces



## Contents

#### Page 6 Overview

- Model overview
- Features
- Installation situation

#### Page 12 Connectors

- Uninsulated
- Insulated
- Shielded/insulated
- PE, uninsulated and insulated

#### Page < US> Accessories

- Installation tool
- Spare parts

#### Page 28 Technical specifications

- Drilling plans
- Technical data
- Derating diagrams

#### Page 38 Index



## General information

#### Changes/reservations

All data, illustrations, and drawings in the catalog have been carefully checked. They are in accordance with our experience to date, but no responsibility can be accepted for errors. We also reserve the right to make modifications for design and safety reasons. When designing equipment incorporating our components, it is therefore advisable not to rely solely on the data in the catalog but to consult us to make sure this information is up to date. We shall be pleased to advise you.

#### Copyright

The use of this catalog for any other purpose, in whatever form, without our prior written consent is not permitted.

#### **RoHS** ready

RoHS European Directive 2011/65/EU incl. all related amendments (e.g. Delegated Directive (EU) 2015/863)

For further information please follow the link below

www.staubli.com/de/en/electricalconnectors/downloads/certificates/materialcompliance.html

#### **Symbols**



Accessories or special tools exist for this product



Assembly instructions MA000 are available for this product









#### **OVERVIEW**

## Model overview

DuraDock power is a connector series with two contact diameters of 16 mm and 28 mm. DuraDock power offers up to 100,000 mating cycles and enables many connectable cable cross sections. Three versions are available:

- uninsulated without housing
- · insulated in plastic housing
- shielded/insulated in metal housing

When unmated, the connectors are IP2X touch proof. With the uninsulated version, ensure that the contact protection on the cable outlet side is designed in accordance with our assembly instructions. For this version, the user must ensure there is protection against electric shock. The versions with housing have degree of protection IP54 (insulated) or IP55 to IP57 (shielded/insulated).

DuraDock power can be inserted in docking plates of 10 mm (0.39 in.) or 14 mm (0.55 in.) thickness, and at a plate spacing of 13 mm (0.51 in.) or 37 mm (1.45 in.). It is possible to combine different plate thicknesses, e.g. the plug side with 10 mm and the socket side with 14 mm thickness.

Nominal contact Ø	Rated current at 20 °C ambient temperature	Maximum conductor	cross-section	Version	Cable outlet	Page
16 mm (0.63 in.)	235 A – 340 A	35 mm² – 95 mm²	2 AWG – 3/0 AWG	uninsulated	straight	12
10 11111 (0.03 111.)	200 A = 040 A	33 11111 - 93 11111	2 AVVG = 3/0 AVVG	uriirisulateu	angled 90°	14
16 mm (0.63 in.)	235 A – 325 A	35 mm² – 95 mm²	2 AWG – 3/0 AWG	insulated	straight	16
10 11111 (0.03 111.)	200 A = 020 A	33 11111 - 93 11111	2 AVVG = 3/0 AVVG	irisulated	angled 90°	18
16 mm (0.63 in.)	220 A – 325 A	35 mm² – 95 mm²	2 AWG – 3/0 AWG	shielded/insulated	straight	20
10 11111 (0.03 111.)	220 A = 323 A	33 11111 - 93 11111	2 AVVG = 3/0 AVVG	Sillelued/ilisulateu	Straight	20
20 mm (1 10 in )	475 A – 630 A	120 mm² – 240 mm²	250 MCM – 450 MCM	uninsulated	straight	12
28 mm (1.10 in.)	475 A - 050 A	120 11111 - 240 111111	250 IVICIVI – 450 IVICIVI	uriirisulateu	angled 90°	14
00 mm (1 10 in )	475 A – 630 A	120 mm² – 240 mm²	250 MCM – 450 MCM	insulated	straight	16
28 mm (1.10 in.)	475 A - 050 A	120 11111 - 240 111111	250 IVICIVI – 450 IVICIVI	irisulated	angled 90°	18
28 mm (1.10 in.)	475 A – 630 A	120 mm² – 240 mm²	250 MCM – 450 MCM	shielded/insulated	straight	20

# Type code

#### Type code example:

#### DPR28P-ISD-CB185M50

DPR28P-ISD-CB185M50	DuraDock power
DPR <b>28</b> P-ISD-CB185M50	Contact diameter (mm)
DPR28 <b>P</b> -ISD-CB185M50	P: Pin; S: Socket
DPR28P- <b>ISD</b> -CB185M50	Version, UIS: uninsulated; ISD: insulated; SDD: shielded/insulated
DPR28P-ISD- <b>CB</b> 185M50	CB: Crimp connection; CLG: Cable lug
DPR28P-ISD-CB <b>185</b> M50	Conductor cross-section: 120 mm²; 150 mm²; 185 mm²; 240 mm²
DPR28P-ISD-CB185 <b>M50</b>	Cable gland thread size: M50

#### Uninsulated version

- · Pre-assembled contact for direct installation in a docking plate or a device
- Cable outlet straight or angled 90°
- Degree of protection IP2X in unmated condition when installed according to our assembly instructions







#### Insulated version

- · Pre-assembled contact in plastic hous-
- Cable outlet straight or angled 90°, the respective unused cable outlet is closed with the supplied blind plug
- Degree of protection IP54, IP2X

#### Shielded/insulated version

- · Pre-assembled contact in metal housing
- Cable outlet straight
- Degree of protection IP55 to IP57, IP2X









#### PE version, uninsulated and insulated

- First mate, last break
- Pre-assembled contact
- Cable outlet straight or angled 90°
- Degree of protection IP2X and IP54 (insulated version only)



## Features







#### Safety and use

- PE version for protection in the event of
- IP2X touch protection on the pin and socket side
- Complete solution for fast mounting
- Plate installation without special tools

#### Variety and flexibility

- Conductor cross sections from 35 mm<sup>2</sup> to 240 mm<sup>2</sup> (from 2 AWG to ~450 MCM)
- Cable outlet straight or angled 90°
- · Uninsulated, insulated, or shielded/insulated versions
- Suitable for plate thicknesses of 10 mm and 14 mm (0.39 and 0.55 in.)
- Suitable for plate spacing of 13 mm and 37 mm (0.51 and 1.45 in.)

Conductor cross sections from  $35 \text{ mm}^2$  to  $240 \text{ mm}^2$ (2 AWG to 450 MCM)

#### **Performance and longevity**

- High current capacity of up to 1900 A (dependent on version, duty cycle and ambient temperature)
- High withstand voltage of up to 1500 V
- High mating cycles, up to 100,000
- Very robust design for industrial environment
- · Insulated versions with degree of protection up to IP57











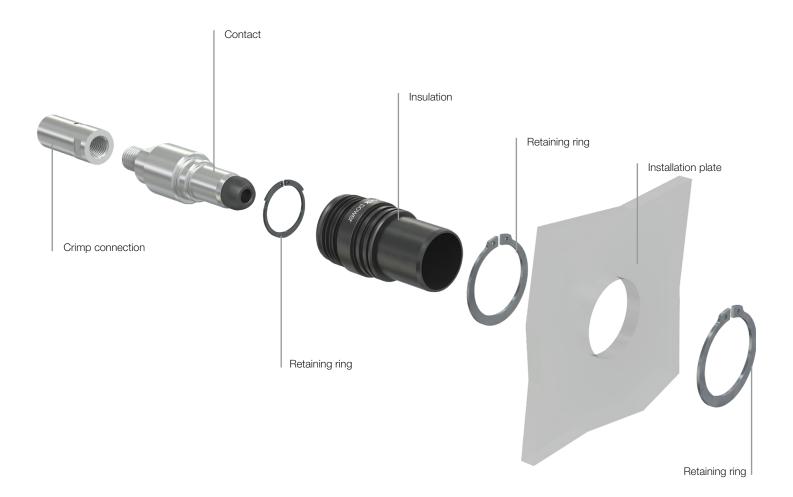
## Installation situation

DuraDock power can be inserted in docking plates of 10 mm or 14 mm (0.39 or 0.55 in.) thickness, and at a plate spacing of 13 mm or 37 mm (0.51 and 1.45 in.). See page 29 for additional details.

#### Note:

The housing must not be used for mechanical alignment. Stable guiding elements must be used for safe application and correct alignment of the plates.

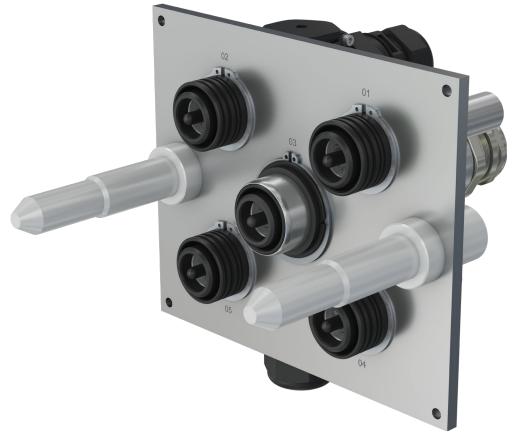
Locking has to be ensured by the plate design.





# Installation example







#### **DURADOCK POWER CONNECTOR**

# Uninsulated version

#### Cable outlet straight

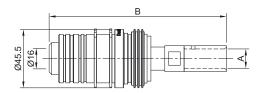
Pin and socket without housing. The cable is crimped with a straight cable outlet. The connector is pre-assembled. The crimp connection and retaining rings are included in the delivery

#### Note

The user has to ensure that the touch protection on the cable side has been implemented.

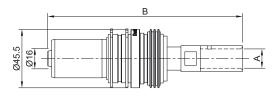
#### DPR16S-UIS-CB...





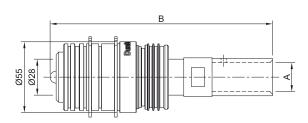
#### DPR16P-UIS-CB...





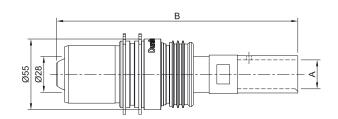
#### DPR28S-UIS-CB...





#### DPR28P-UIS-CB...







Order No.	Туре	Socket	Pin	Nominal contact Ø		Conductor cross-section PE conductor cross- section	Recommended for conductor cross-section	Crimp connection inner Ø	Dimension B	Rated current at 20 °C ambient temperature	Connection type
				mm	mm²	AWG/MCM	mm²	A (mm)	B (mm)	А	
DuraDock	power 16										
18.0393	DPR16S-UIS-CB35	×		10	0.5	414/0.0		•	138	205	
18.0390	DPR16P-UIS-CB35		×	16	35	AWG 2	-	9	152	235	_
18.0394	DPR16S-UIS-CB50	×		10	50	A14/O 4		4.4	138	075	Crimp connection
18.0391	DPR16P-UIS-CB50		×	16	50	AWG 1	-	11	152	275	nnec
18.0395	DPR16S-UIS-CB70	×		40	70	A1A/O O/O		40	138	005	000
18.0392	DPR16P-UIS-CB70		×	16	70	AWG 2/0	-	13	152	295	rim
18.0541	DPR16S-UIS-CB95	×		16	95	AVA/C 2/0		15	138	345	O
18.0540	DPR16P-UIS-CB95		×	16	95	AWG 3/0	-	15	152	343	
DuraDock	c power 28										
18.0294	DPR28S-UIS-CB120	×							168		
18.0296	DPR28P-UIS-CB120		×	28	120	250 MCM	-	17	183	475	_
18.0288	DPR28S-UIS-CB150	×							168		tion
18.0286	DPR28P-UIS-CB150		×	28	150	300 MCM	-	19	183	520	nnec
18.0276	DPR28S-UIS-CB185	×		00	405	AWG 6/0		04	173	505	Crimp connection
18.0280	DPR28P-UIS-CB185		×	28	185	350 MCM	-	21	188	565	rim
18.0266	DPR28S-UIS-CB240	×		28	240	AWG 7/0		22.5	173	620	O
18.0267	DPR28P-UIS-CB240		×	20	240	450 MCM	-	22.3	188	630	
DuraDock	power 16 PE										
18.0624	DPR16S-PE-UIS-CB35	×					35 (AWG 2), 50 (AWG 1),		138		
18.0620	DPR16P-PE-UIS-CB35		×	16	35	AWG 2	70 (AWG 2/0)	9	152	_	_
18.0625	DPR16S-PE-UIS-CB50	×					25 (1110 2 (2)		138		tion
18.0621	DPR16P-PE-UIS-CB50		×	16	50	AWG 1	95 (AWG 3/0)	11	152	_	nnec
18.0626	DPR16S-PE-UIS-CB70	×		16	70	AMC 2/0	120 (250 MCM),	10	138		Crimp connection
18.0622	DPR16P-PE-UIS-CB70		×	16	70	AWG 2/0	150 (300 MCM)	13	152	_	rimk
18.0627	DPR16S-PE-UIS-CB95	×		16	O.F.	AVA/C 2/0	185	15	138		Ö
18.0623	DPR16P-PE-UIS-CB95		×	16	95	AWG 3/0	(AWG 6/0, 350 MCM)	15	152	_	
DuraDock	power 28 PE										
18.0587	DPR28S-PE-UIS-CB120	×					240		168		Crimp
18.0586	DPR28P-PE-UIS-CB120		×	28	120	250 MCM	(AWG 7/0, 450 MCM)	17	183	-	connection



Assembly instructions DuraDock power 16: MA313 DuraDock power 28: MA312 DuraDock power PE: MA315 www.staubli.com/electrical

#### Cable outlet bent 90°

Pin and socket without housing. When the cable outlet is angled the cable is connected using a cable lug. The connector is pre-assembled. The cable lug, retaining rings, and

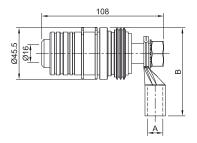
other installation accessories are included in the delivery.

#### Note

The user has to ensure that the touch protection on the cable side has been implemented.

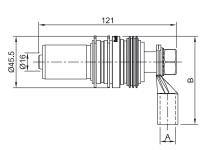
#### DPR16S-UIS-CLG...





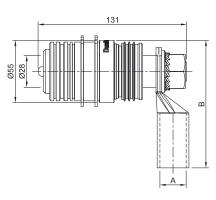
#### DPR16P-UIS-CLG...





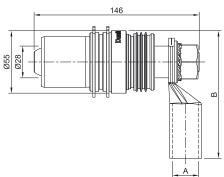
#### DPR28S-UIS-CLG...





#### DPR28P-UIS-CLG...





Order No.	Туре	Socket	Pin	Nominal contact Ø		Conductor cross-section PE conductor cross- section	Recommended for conductor cross-section	Crimp connection inner Ø	Dimension B	Rated current at 20 °C ambient temperature	Connection type
				mm	mm²	AWG/MCM	mm²	A (mm)	B (mm)	А	
DuraDoc	k power 16										
18.0544	DPR16S-UIS-CLG35	×		40	0.5	11110		0.0	00	005	
18.0547	DPR16P-UIS-CLG35		×	16	35	AWG 2	-	9.2	66	235	
18.0545	DPR16S-UIS-CLG50	×							_,		_
18.0548	DPR16P-UIS-CLG50		×	16	50	AWG 1	-	11	71	275	Cable lug
18.0546	DPR16S-UIS-CLG70	×									able
18.0549	DPR16P-UIS-CLG70		×	16	70	AWG 2/0	-	13.1	74	295	O
18.0543	DPR16S-UIS-CLG95	×				11110 010					
18.0542	DPR16P-UIS-CLG95		×	16	95	AWG 3/0	-	14.5	78	345	
DuraDoc	k power 28										
18.0293	DPR28S-UIS-CLG120	×									
18.0292	DPR28P-UIS-CLG120		×	28	120	250 MCM	-	16.2	93.5	475	
18.0284	DPR28S-UIS-CLG150	×									
18.0282	DPR28P-UIS-CLG150		×	28	150	300 MCM	-	18	97.5	520	lug
18.0278	DPR28S-UIS-CLG185	×				AWG 6/0					Cable lug
18.0274	DPR28P-UIS-CLG185		×	28	185	350 MCM	-	20.6	99.5	565	Ö
18.0250	DPR28S-UIS-CLG240	×				AWG 7/0					
18.0249	DPR28P-UIS-CLG240		×	28	240	450 MCM	-	23.1	112.5	630	
DuraDoc	k power 16 PE										
18.0632	DPR16S-PE-UIS-CLG35	×					35 (AWG 2), 50 (AWG 1),				
18.0628	DPR16P-PE-UIS-CLG35		×	16	35	AWG 2	70 (AWG 2/0)	9.2	66	-	
18.0633	DPR16S-PE-UIS-CLG50	×									
18.0629	DPR16P-PE-UIS-CLG50		×	16	50	AWG 1	95 (AWG 3/0)	11	71	-	lug
18.0634	DPR16S-PE-UIS-CLG70	×					120 (250 MCM),				Cable lug
18.0630	DPR16P-PE-UIS-CLG70		×	16	70	AWG 2/0	150 (300 MCM)	13.1	74	-	Ö
18.0635	DPR16S-PE-UIS-CLG95	×					185				
18.0631	DPR16P-PE-UIS-CLG95		×	16	95	AWG 3/0	(AWG 6/0, 350 MCM)	14.5	78	_	
DuraDoc	k power 28 PE										
18.0580	DPR28S-PE-UIS-CLG120	×					240		168		<u>o</u>
18.0582	DPR28P-PE-UIS-CLG120		×	28	120	250 MCM	(AWG 7/0, 450 MCM)	17	183	-	Cable
10.0002	2. ALG. 1 2 GIO GEG 120						,		100		



Assembly instructions DuraDock power 16: MA313 DuraDock power 28: MA312 DuraDock power PE: MA315 www.staubli.com/electrical



## Insulated version

#### Cable outlet straight

Pin and socket in plastic housing consisting of two half-shells.

The connector is pre-assembled. The crimpi connection, housing, and other installation

accessories are included in the delivery (please correct in the hole flyer)

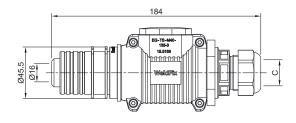
#### Note:

When using the straight cable outlet, the unused bent cable outlet is closed with a blind Pin (in the scope of delivery).

#### DPR16S-ISD-CB...M32



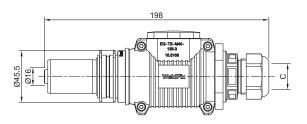
Ç¥ €



#### DPR16P-ISD-CB...M32

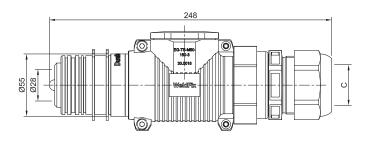


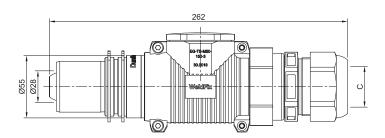
∩K (€



# DPR28S-ISD-CB...M50









Order No.	Туре	Socket	Pin	Nominal contact Ø	- contrator charge.	,,	Recommended for conductor cross-section	Crimp connection inner Ø	Rated current at 20 °C ambient temperature	Cable Ø	Connection type
				mm	mm²	AWG/MCM	mm²	mm	А	C (mm)	
DuraDoc	k power 16										
18.0524	DPR16S-ISD-CB35M32	×		16	35	AWG 2	-	9	235		
18.0396	DPR16P-ISD-CB35M32		×	10	33	AWG 2	_	Э	233		<b>C</b>
18.0525	DPR16S-ISD-CB50M32	×		16	50	AWG 1	_	11	275	min. 9	Crimp connection
18.0397	DPR16P-ISD-CB50M32		×	10	00	7.WG 1		••	270	max. 21	onne
18.0526	DPR16S-ISD-CB70M32	×		16	70	AWG 2/0	_	13	295		<u>0</u>
18.0398	DPR16P-ISD-CB70M32		×	10	70	7 W G 2/0		10	200		Fi
18.0521	DPR16S-ISD-CB95M32	×		16	95	AWG 3/0	_	15	345	min. 19	O
18.0520	DPR16P-ISD-CB95M32		×	10	00	7 W G 0/0		10	0-10	max. 25	
DuraDoc	k power 28										
18.0295	DPR28S-ISD-CB120M50	×									
18.0297	DPR28P-ISD-CB120M50		×	28	120	250 MCM	_	17	475		_
18.0289	DPR28S-ISD-CB150M50	×		00	450	000 14014		40	500		Crimp connection
18.0287	DPR28P-ISD-CB150M50		×	28	150	300 MCM	-	19	520	min. 16	nne
18.0277	DPR28S-ISD-CB185M50	×		00	105	AWG 6/0		01	505	max. 35	00 0
18.0281	DPR28P-ISD-CB185M50		×	28	185	350 MCM	_	21	565		i i
18.0253	DPR28S-ISD-CB240M50	×		28	240	AWG 7/0		22.5	630		O
18.0262	DPR28P-ISD-CB240M50		×	20	240	450 MCM	_	22.5	030		
DuraDoc	k power 16 PE										
18.0648	DPR16S-PE-ISD-CB35-M32	×					35 (AWG 2), 50 (AWG 1),				
18.0644	DPR16P-PE-ISD-CB35-M32		×	16	35	AWG 2	70 (AWG 2/0)	9	-		_
18.0649	DPR16S-PE-ISD-CB50-M32	×								min. 9	tion
18.0645	DPR16P-PE-ISD-CB50-M32		×	16	50	AWG 1	95 (AWG 3/0)	11	-	max. 21	nnec
18.0650	DPR16S-PE-ISD-CB70-M32	×		10	70	A14/O 0/O	120 (250 MCM),	10			Crimp connection
18.0646	DPR16P-PE-ISD-CB70-M32		×	16	70	AWG 2/0	150 (300 MCM)	13	_		rimp
18.0651	DPR16S-PE-ISD-CB95-M32	×		10	0.5	AVA(O, O, (O,	185	15		min. 19	O
18.0647	DPR16P-PE-ISD-CB95-M32		×	16	95	AWG 3/0	(AWG 6/0, 350 MCM)	15	_	max. 25	
DuraDoc	k power 28 PE										
18.0589	DPR28S-PE-ISD-CB120M50	×					240			min. 16	Crimp
18.0588	DPR28P-PE-ISD-CB120M50		×	28	120	250 MCM	(AWG 7/0, 450 MCM)	17	-	max. 35	connection



Assembly instructions DuraDock power 16: MA313 DuraDock power 28: MA312 DuraDock power PE: MA315 www.staubli.com/electrical



## Insulated version

#### Cable outlet bent 90°

Pin and socket in plastic housing consisting of two half-shells. The connector is pre-assembled. The cable lug, housing, and other installation accessories are included in the delivery.

#### Note:

When using the bent cable outlet, the unused straight cable outlet is closed with a blind Pin (in the scope of delivery).

#### DPR16S-ISD-CLG...M32



#### DPR16P-ISD-CLG...M32

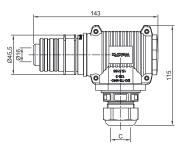


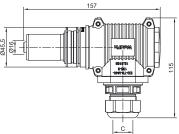
#### DPR28S-ISD-CLG...M50

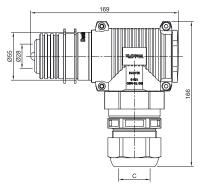


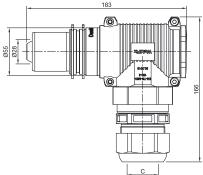
#### DPR28P-ISD-CLG...M50













Order No.	Туре	Socket	Pin	Nominal contact Ø	Conductor gross-	section PE conductor cross- section	Recommended for conductor cross- section	Cable lug inner Ø	Rated current at 20 °C ambient temperature	Cable Ø	Connection type
				mm	mm²	AWG/MCM	mm²	mm	А	C (mm)	
DuraDoc	k power 16										
18.0527	DPR16S-ISD-CLG35M32	×		10	0.5	A14/O O		0.0	005		
18.0530	DPR16P-ISD-CLG35M32		×	16	35	AWG 2	_	9.2	235		<u>و</u>
18.0528	DPR16S-ISD-CLG50M32	×		16	<b>50</b>	AVA/C 1		44	075	min. 9	Cable lug with crimp connection
18.0531	DPR16P-ISD-CLG50M32		×	16	50	AWG 1	-	11	275	max. 21	with
18.0529	DPR16S-ISD-CLG70M32	×		16	70	AWG 2/0		10.1	205		e lug with c connection
18.0532	DPR16P-ISD-CLG70M32		×	16	70	AWG 2/0	_	13.1	295		ble
18.0523	DPR16S-ISD-CLG95M32	×		16	95	AVA/C 2/0		115	345	min. 19	ద్ద
18.0522	DPR16P-ISD-CLG95M32		×	16	95	AWG 3/0	-	14.5	345	max. 25	
DuraDoc	k power 28										
18.0290	DPR28S-ISD-CLG120M50	×		28	120	250 MCM		16.2	475		
18.0291	DPR28P-ISD-CLG120M50		×	20	120	250 IVICIVI	_	10.2	475		ď
18.0285	DPR28S-ISD-CLG150M50	×		28	150	300 MCM	_	18	520		crir
18.0283	DPR28P-ISD-CLG150M50		×	20	130	300 IVICIVI		10	320	min. 16	e lug with c
18.0279	DPR28S-ISD-CLG185M50	×		28	185	AWG 6/0		20.6	565	max. 35	lug
18.0275	DPR28P-ISD-CLG185M50		×	20	100	350 MCM	_	20.0	303		Cable lug with crimp connection
18.0254	DPR28S-ISD-CLG240M50	×		28	240	AWG 7/0	_	23.1	630		ပၱ
18.0255	DPR28P-ISD-CLG240M50		×	20	240	450 MCM		20.1	000		
DuraDoc	k power 16 PE										
18.0640	DPR16S-PE-ISD-CLG35-M32	×		16	35	AWG 2	35 (AWG 2), 50 (AWG 1),	9.2	_		
18.0636	DPR16P-PE-ISD-CLG35-M32		×	10	00	AVVOZ	70 (AWG 2/0)	5.2			d.
18.0641	DPR16S-PE-ISD-CLG50-M32	×		16	50	AWG 1	95 (AWG 3/0)	11	_	min. 9	on Crir
18.0637	DPR16P-PE-ISD-CLG50-M32		×	10	30	AVVGT	00 (1000)			max. 21	with
18.0642	DPR16S-PE-ISD-CLG70-M32	×		16	70	AWG 2/0	120 (250 MCM),	13.1	_		Cable lug with crimp connection
18.0638	DPR16P-PE-ISD-CLG70-M32		×	.0	, 3		150 (300 MCM)	10.1			able
18.0643	DPR16S-PE-ISD-CLG95-M32	×		16	95	AWG 3/0	185	14.5	_	min. 19	Ö
18.0639	DPR16P-PE-ISD-CLG95-M32		×	. •			(AWG 6/0, 350 MCM)	0		max. 25	
DuraDoc	k power 28 PE										
18.0584	DPR28S-PE-ISD-CLG120-M50	×		28	120	250 MCM	240	16.2	_	min. 16	Cable lug with
18.0585	DPR28P-PE-ISD-CLG120-M50		×	20	120	200 IVICIVI	(AWG 7/0, 450 MCM)	10.2		max. 35	crimp connection
<b>6</b> 3											



Assembly instructions DuraDock power 16: MA313 DuraDock power 28: MA312 DuraDock power PE: MA315

www.staubli.com/electrical



## Shielded/insulated version

#### Cable outlet straight

Pin and socket in shielded/insulated metal housing.

The connector is pre-assembled. The crimp connection, housing, and other installation accessories are included in the delivery.

#### **Shielding principle**

The Stäubli MULTILAM serves as contact elements between the housings. They extend the shield and ensure optimal 360° shielding. An EMC cable gland connects the shield.

#### **Advantages**

- Easy cabling with EMC cable gland
- No electrical connection between housing and installation plate
- Shielding loops are prevented during installation

#### DPR16S-SDD-CB...



#### DPR16P-SDD-CB...

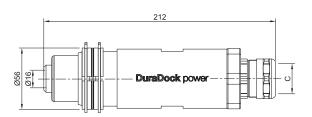


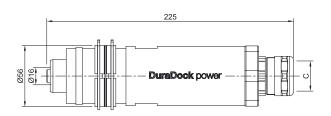
#### DPR28S-SDD-CB...

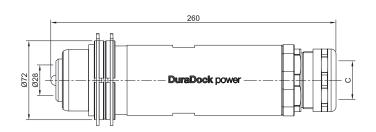


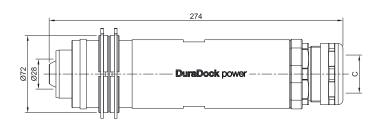
#### DPR28P-SDD-CB...













Order No.	Туре	Socket	Pin	Nominal contact Ø	mm²	Conductor cross-section WMC/MMCM	Crimp connection inner Ø	> Rated current at 20 °C ambient temperature	Cable Ø	Connection type	Screw connection
DuraDock	c power 16								, , ,		
18.0502	DPR16S-SDD-CB35M32	×		16	35	AWG 2	9	220			
18.0505	DPR16P-SDD-CB35M32		×							on	
18.0503	DPR16S-SDD-CB50M32	×		16	50	AWG 1	11	250		ecti	
18.0506	DPR16P-SDD-CB50M32		×						min. 15	Crimp connection	EMV
18.0504	DPR16S-SDD-CB70M32	×		16	70	AWG 2/0	13	280	max. 25	o du	(M32)
18.0507	DPR16P-SDD-CB70M32		×							Crir	
18.0501	DPR16S-SDD-CB95M32	×		16	95	AWG 3/0	15	325			
18.0500	DPR16P-SDD-CB95M32		×								
DuraDock	c power 28										
18.0271	DPR28S-SDD-CB120M40	×									
18.0268	DPR28P-SDD-CB120M40		×	28	120	250 MCM	17	475		_	
18.0272	DPR28S-SDD-CB150M40	×							min. 20	Crimp connection	EMV
18.0269	DPR28P-SDD-CB150M40		×	28	150	300 MCM	19	520	max. 32	nnec	(M40)
18.0273	DPR28S-SDD-CB185M40	×				AWG 6/0				000	
18.0270	DPR28P-SDD-CB185M40		×	28	185	350 MCM	21	565		rimp	
18.0252	DPR28S-SDD-CB240M50	×		00	0.40	AWG 7/0		000	min. 31	O	EMV
18.0251	DPR28P-SDD-CB240M50		×	28	240	450 MCM	22.5	630	max. 42		(M50)



Assembly instructions DuraDock power 16: MA313 DuraDock power 28: MA312 www.staubli.com/electrical



#### **ACCESSORIES**

# Tools

## Open-ended wrench insert for torque wrench

#### DuraDock power 16, DuraDock power 16-PE

Manufac- turer	Order No.	Туре	Description	Width across flats (mm)	required for	torque
Tools of ot	her manufacturer	, not available via Stäu	bli			
Stahlwille	731/100 SW 55	Jaw insertion tools No 731/100	Clamping tool insert, tool holder 22 mm x 28 mm (0.866 in. x 1.102 in.)	SW 55	Shielded/insulated version	see MA 313

#### DuraDock power 28, DuraDock power 16-PE

turer   Graef No.   Type   Secondaria   flats (mm)   Tequired for torque	Manufac- turer Order No.	Туре	Description	Width across flats (mm)	required for	torque
--	-----------------------------	------	-------------	-------------------------	--------------	--------

#### Stäubli tools



Stäubli	18.0551	DE SW57_A	Clamping tool insert	SW 57	Shielded/insulated	<u></u> MA
StauDii	18.0550	DE SW65-A	Clamping tool insert	SW 65	version	see MA 312, MA315

#### Tools of other manufacturer, not available via Stäubli



Stahlwille	731/100 SW 55	Jaw insertion tools	Clamping tool insert, tool holder 22 mm x 28 mm (0.866 in. x 1.102 in.)	SW 55	Insulated version	ШМА
	731/100 SW 60	No 731/100		SW 60		see MA 312, MA315



# Crimping pliers

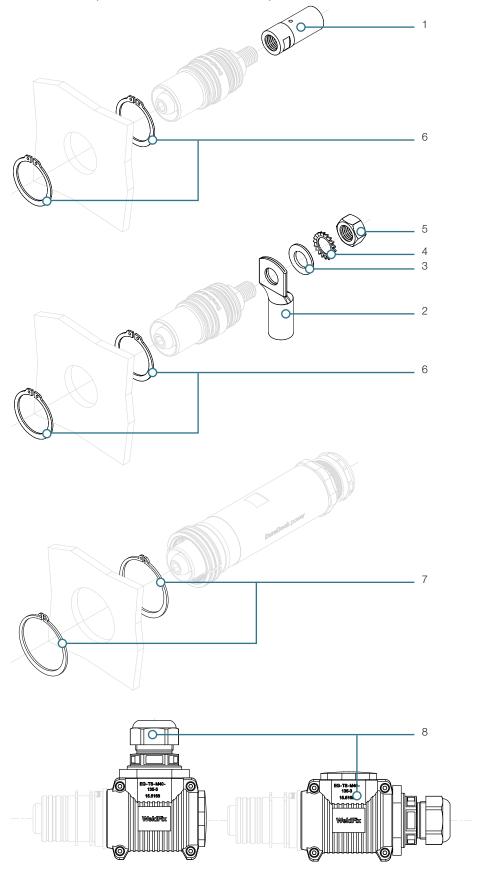
The crimping pliers listed guarantee a secure and high-quality crimp connection. Stäubli recommends electro-hydraulic pliers or a crimping head for series assembly, and manual pliers for smaller series or individual assemblies (see table below).

Manufacturer	Electrohydraulic pliers	Hand pliers	Crimping head	Possible conductor cross sections	Name	Condition
	×			16 mm² – 300 mm²	EK60VPFTCFM	
		×		10 mm² – 240 mm²	HK 60 VP	a
Klauke		×		16 mm² – 300 mm²	HK 60 VP/FT	Class 5 and class 6 cables
			×	10 mm <sup>2</sup> – 240 mm <sup>2</sup>	PK 60 VP	Cables
			×	16 mm² – 300 mm²	PK 60 VP/FT	



# Spare parts

DuraDock power 16, DuraDock power 16-PE





				Vers	on	
Pos.	Order No.	Туре	Description	uninsulated	insulated	shielded
Crim	p connection	(cable outlet straight)				
1	18.7577	H35N/M14	Crimp connection, conductor cross section 35 mm <sup>2</sup>	×	×	×
1	18.7580	H50N/M14	Crimp connection, conductor cross section 50 mm <sup>2</sup>	×	×	×
1	18.7574	H70N/M14	Crimp connection, conductor cross section 70 mm <sup>2</sup>	×	×	×
1	07.0022	H95N/M14	Crimp connection, conductor cross section 95 mm <sup>2</sup>	×	×	×
Cable	e lugs and ac	cessories (cable outlet ben	t 90°)			
2	17.1015	K-SCH35-14/K	Cable lug, conductor cross section 35 mm <sup>2</sup>	×	×	
2	17.1014	K-SCH50-14/K	Cable lug, conductor cross section 50 mm <sup>2</sup>	×	×	
2	17.1013	K-SCH70-14/K	Cable lug, conductor cross section 70 mm <sup>2</sup>	×	×	
2	17.0067	K-SCH95-14/K	Cable lug, conductor cross section 95 mm <sup>2</sup>	×	×	
3	08.0404	UE/M14X1 AG	Washer, all conductor cross sections	×	×	
4	08.0708	F/M14 DIN6798A BN781	Spring washer, all conductor cross sections	×	×	
5	08.0108	MU0,8D/M14 AG	Nut, all conductor cross sections	×	×	
Retaining rings						
6	18.5627	SI-RG A38 DIN471 FS	Retaining ring	×	×	
7	33001199	SI-RG A56 DIN471 FS	Retaining ring for fastening the insulating sleeve to the plug connector and the plug connector in the plate.			×
Housings						
8	18.0569	SPD-DPR16-ISD	End housing with cable gland, conductor cross section 35 – 70 mm <sup>2</sup>		×	

End housing with cable gland, conductor cross section 95  $\mathrm{mm}^2$ 



Assembly instructions DuraDock power 16: MA313 DuraDock power PE: MA315 www.staubli.com/electrical

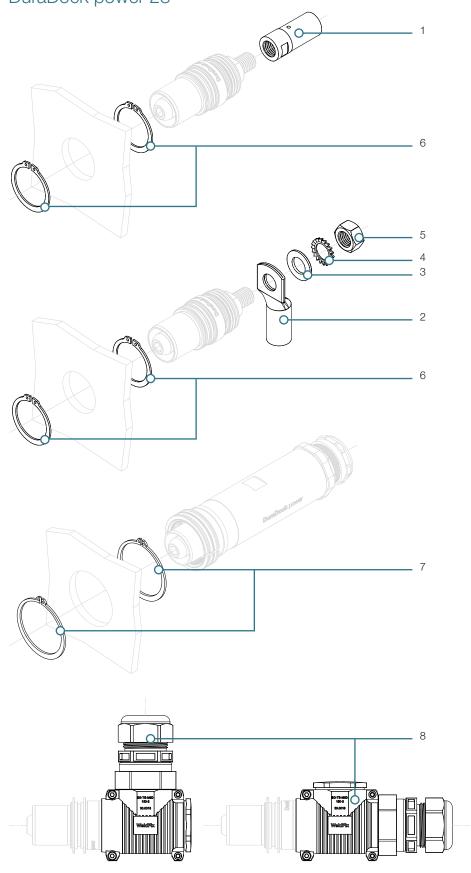
18.0572

SPD-DPR16S/95-ISD



# Spare parts

## DuraDock power 28





				Versio	n	
Pos.	Order No.	Туре	Description	uninsulated	insulated	shielded
Crimp	connection (	cable outlet straight)				
1	18.7566	H120N/M20	Crimp connection, conductor cross section 120 mm <sup>2</sup>	×	×	×
1	18.7563	H150N/M20	Crimp connection, conductor cross section 150 mm²	×	×	×
1	18.7560	H185N/M20	Crimp connection, conductor cross section 185 mm <sup>2</sup>	×	×	×
1	33004292	H240N/M20/DDP	Crimp connection, conductor cross section 240 mm <sup>2</sup>	×	×	×
Cable	lugs and acc	essories (cable outlet bent 90	O°)			
2	17.1011	K-SCH120-20/K	Cable lug, conductor cross section 120 mm <sup>2</sup>	×	×	
2	17.1010	K-SCH150-20/K	Cable lug, conductor cross section 150 mm <sup>2</sup>	×	×	
2	17.1009	K-SCH185-20/K	Cable lug, conductor cross section 185 mm <sup>2</sup>	×	×	
2	17.0066	K-SCH240-20/K	Cable lug, conductor cross section 240 mm <sup>2</sup>	×	×	
3	08.0311	U/M20 AG	Washer, all conductor cross sections	×	×	
4	08.0711	F/M20 DIN6798A BN781	Spring washer, all conductor cross sections	×	×	
5	08.0111	MU0,8D/M20 AG	Nut, all conductor cross sections	×	×	
Retaining rings (for plate installation)						
6	18.5609	SI-RG A52 DIN471 FS	Retaining ring	×	×	
7	18.5805	SI-RG A72 DIN471	Retaining ring for fastening the insulating sleeve to the plug connector and the plug connector in the plate.			×
Housings						

End housing with cable gland, all conductor cross sections

The housing for the shielded version is not available as a spare part..

SPD-DPR28-ISD



10

18.0570

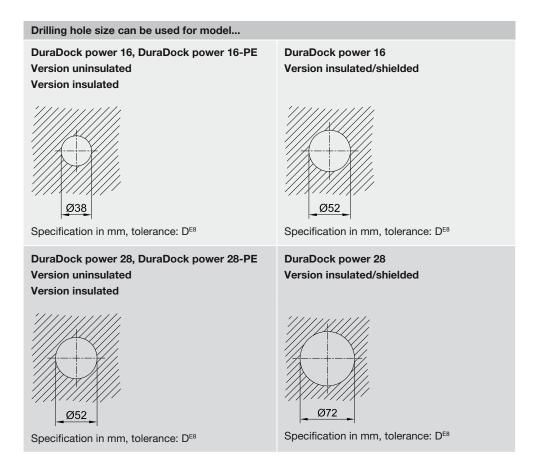
Assembly instructions DuraDock power 28: MA312 DuraDock power PE: MA315 www.staubli.com/electrical



#### **TECHNICAL SPECIFICATIONS**

# Drilling plan and installation dimensions

#### Drilling plan for a docking plate



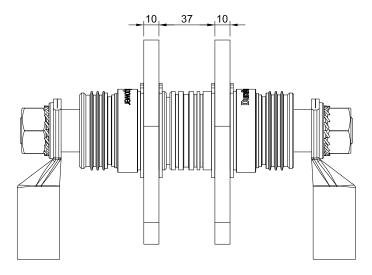


#### Installation dimensions

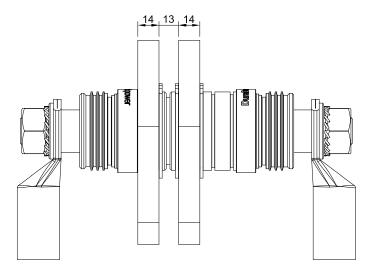
The installation plate has to be either 10 mm or 14 mm (0.39 or 0.55 in.) thick.

The spacing between these installation plates has to be either 13 mm or 37 mm (0.51 and 1.45 in.).

It is possible to combine the plate thicknesses, e.g. the plug side with 10 mm and the socket side with 14 mm thickness.



Example with 10 mm (0.39 in.) plate thickness and 37 mm (1.45 in.) plate spacing



Example with 14 mm (0.55 in.) plate thickness and 13 mm (0.51 in.) plate spacing



## Technical data

		Version			
Technical data		Uninsulated	Insulated	Insulated/ shielded	
Contact system		ı	MULTILAM		
Rated current at 20 °C ambient temperature <sup>1)</sup> (derating diagrams, from p	DuraDock power 16 page 31) DuraDock power 28	max. 340 A max. 630 A			
Rated voltage		AC 25 V/DC 60 V (without protection area) AC 1000 V/DC 1500 V			
Conductor cross-section	DuraDock power 16, DuraDock power 16-PE DuraDock power 28, DuraDock power 28-PE		mm² (2 AWG – 3/0 . nm² (250 MCM – 45		
Overvoltage category			CATIII		
Degree of pollution			3		
Insulating material group			I		
Total contact resistance	DuraDock power 16, DuraDock power 16-PE DuraDock power 28, DuraDock power 28-PE		<80 μΩ <40 μΩ		
Test voltage		8.25 kV (50 – 60 Hz) for 1 min.			
Insulation coordination according to IEC 60664-1	, DIN VDE 0110-1	15 kV			
Insulation temperature res	sistance	POM: -	-40 °C +100 °C		
Ambient temperature		-10	°C +40 °C ¹)		
Operating temperature		-10	°C +100 °C		
Max. Temperature differen	nce pin/socket when plugged in		30 K		
Storage temperature		-40 °C +80 °C			
Protection type, unplugge	ed	IP2X <sup>2)</sup>	IP2X	IP2X	
Protection type, plugged i	n	IP2X <sup>2)</sup>	IP54	IP55, IP56, IP57	
Total connector insertion	force DuraDock power 16, DuraDock power 16-PE DuraDock power 28, DuraDock power 28-PE	max. 20 N max. 100 N	max. 130 N max. 200 N	max. 200 N ca. 400 N	
Safety class			II		
Connection type axial outlet 90° outlet		Crimp connection  Cable lug			
Contact material		CuZn alloy, silver-plated			
Insulation material			POM		
Housing material		-	PA	Aluminum alloy	
Shielding (360°) (diagrams	s, from page 36)	-	-	>71 dB	
Additional regulations		IEC 60664-1:2020 DIN VDE 0627/EN 61984:2009 DIN VDE 0298-4:2003			

#### Notes:

- The housing must not be used for mechanical alignment. Stable guides and alignment elements must be used for
- safe application and correct alignment of the plates (see illustration page 11).
- With the uninsulated version, ensure that the contact protection on the cable

outlet side (behind the docking plate) is designed in accordance with the assembly instructions. The user must ensure there is protection against electric shock.

<sup>&</sup>lt;sup>1)</sup> At ambient temperatures above 40°C the current must be reduced according to the derating diagram.

<sup>&</sup>lt;sup>2)</sup> Only in the insertion area in front of the plate (see note)



# Derating diagram

The current-carrying capacity of connectors is limited by the thermal load capacity of the materials of the contact elements including connections and insulating parts. The derating curve applies to currents that are continuous, not intermittent, allowed to flow through each contact element of the connector, at the same time, without the upper temperature limit being exceeded.

In addition to the maximum continuous currents, current characteristics apply for short-time operation. The duty cycle (ED) is determined within a cycle time of 10 minutes (ratio of switch-on and pause time).

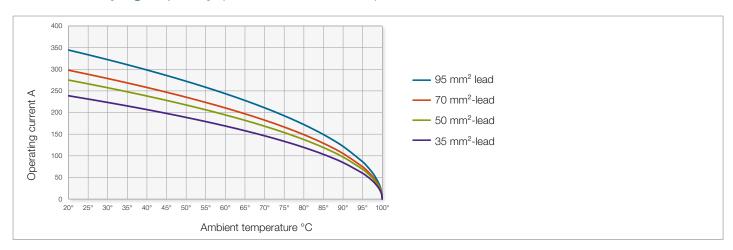
Measuring and test methods according to DIN 41640 Part 3.

The values given in the derating diagrams apply to connectors (see Standard EN 60204). For the permissible load of the cables, refer to the relevant regulations such as DIN VDE 0298-4 and DIN EN 60204-1, IEC 60204-1.

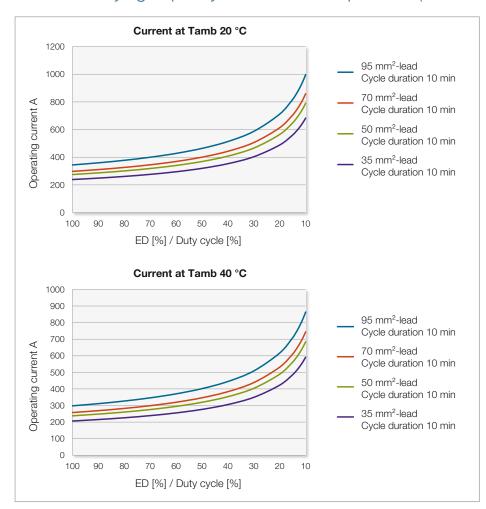


#### DuraDock power 16 uninsulated and insulated

#### Current carrying capacity (continuous current)



#### Current-carrying capacity in intermittent operation (short-time operation)



#### **Example:**

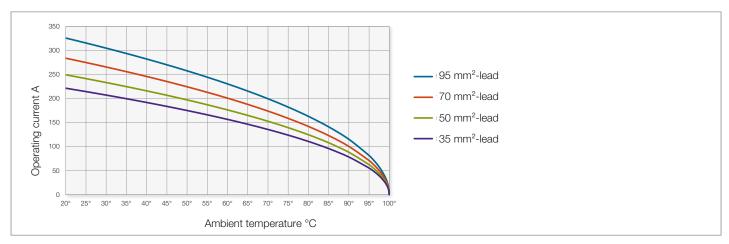
With 95 mm2 leads, DuraDock power 16 can transmit up to max. 300 A continuous thermal current at an ambient temperature of 40 °C; this corresponds to a duty cycle (ED) of 100 %.

With a duty cycle of 20 % and a pause time of 80 %, the connector can transmit 610 A with the 95 mm2 lead. This is based on a cycle time of 10 minutes, i.e. ED 20 % corresponds to 2 minutes "On", 8 minutes "Off".

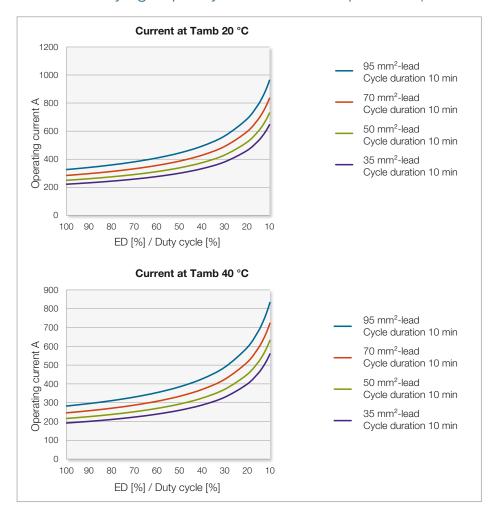


#### DuraDock power 16 insulated/shielded

#### Current carrying capacity (continuous current)



#### Current-carrying capacity in intermittent operation (short-time operation)



#### **Example:**

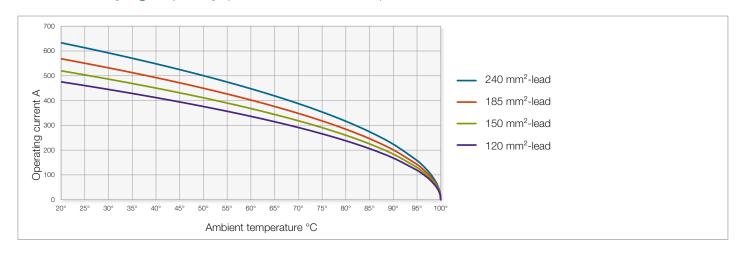
With 50 mm2 leads, DuraDock power 16 can transmit up to max. 250 A continuous thermal current at an ambient temperature of 20 °C; this corresponds to a duty cycle (ED) of 100 %.

With a duty cycle of 20 % and a pause time of 80 %, the connector with the 50 mm2 lead can transmit a maximum of 520 A. This is based on a cycle time of 10 minutes, i.e. ED 20 % corresponds to 2 minutes "On", 8 minutes "Off".

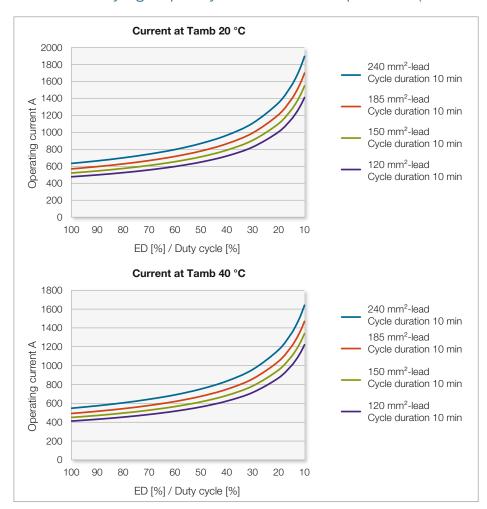


#### DuraDock power 28

#### Current carrying capacity (continuous current)



#### Current-carrying capacity in intermittent operation (short-time operation)



#### **Example:**

With 150 mm<sup>2</sup> conductors, DuraDock power 28 can transmit up to max. 520 A continuous thermal current at an ambient temperature of 20 °C; this corresponds to a duty cycle (ED) of 100 %.

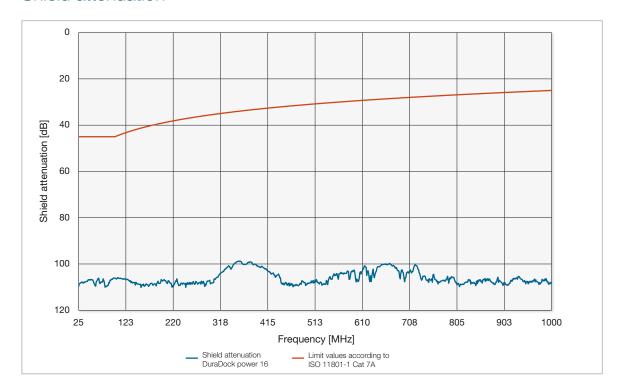
With a duty cycle of 20 % and a pause time of 80 %, the connector can transmit a maximum of 1100 A with the 150 mm² lead. This is based on a cycle time of 10 minutes, i.e. ED 20 % corresponds to 2 minutes "On", 8 minutes "Off".



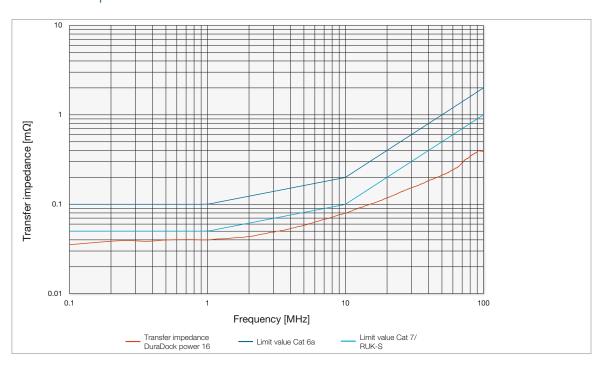
# Diagrams for the shielded connectors

## DuraDock power 16

#### Shield attenuation



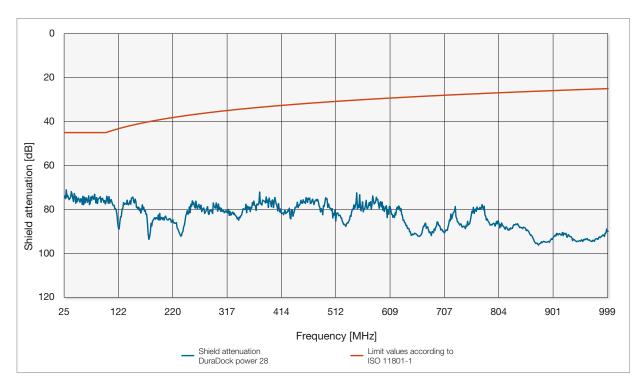
## Transfer impedance



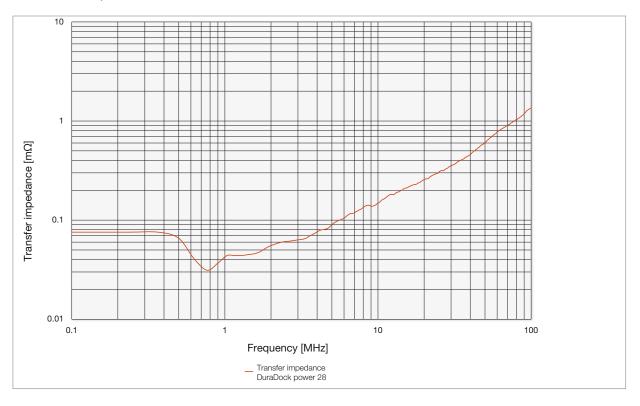


## DuraDock power 28

#### Shield attenuation



## Transfer impedance



## STÄUBLI



#### **INDEX**

# Index, sorted by type

Туре	page
DE SW57_A	22
DE SW65-A	22
DPR16P-ISD-CB35M32	17
DPR16P-ISD-CB50M32	17
DPR16P-ISD-CB70M32	17
DPR16P-ISD-CB95M32	17
DPR16P-ISD-CLG35M32	19
DPR16P-ISD-CLG50M32	19
DPR16P-ISD-CLG70M32	19
DPR16P-ISD-CLG95M32	19
DPR16P-PE-ISD-CB35-M32	17
DPR16P-PE-ISD-CB50-M32	17
DPR16P-PE-ISD-CB70-M32	17
DPR16P-PE-ISD-CB95-M32	17
DPR16P-PE-ISD-CLG35-M32	19
DPR16P-PE-ISD-CLG50-M32	19
DPR16P-PE-ISD-CLG70-M32	19
DPR16P-PE-ISD-CLG95-M32	19
DPR16P-PE-UIS-CB35	13
DPR16P-PE-UIS-CB50	13
DPR16P-PE-UIS-CB70	13
DPR16P-PE-UIS-CB95	13
DPR16P-PE-UIS-CLG35	15
DPR16P-PE-UIS-CLG50	15
DPR16P-PE-UIS-CLG70	15
DPR16P-PE-UIS-CLG95	15
DPR16P-SDD-CB35M32	21
DPR16P-SDD-CB50M32	21
DPR16P-SDD-CB70M32	21
DPR16P-SDD-CB95M32	21
DPR16P-UIS-CB35	13
DPR16P-UIS-CB50	13
DPR16P-UIS-CB70	13
DPR16P-UIS-CB95	13
DPR16P-UIS-CLG35	15
DPR16P-UIS-CLG50	15
DPR16P-UIS-CLG70	15
DPR16P-UIS-CLG95	15
DPR16S-ISD-CB35M32	17
DPR16S-ISD-CB50M32	17
DPR16S-ISD-CB70M32	17
DPR16S-ISD-CB95M32	17
DPR16S-ISD-CLG35M32	19
DPR16S-ISD-CLG50M32	19

Туре	page
DPR16S-ISD-CLG70M32	19
DPR16S-ISD-CLG95M32	19
DPR16S-PE-ISD-CB35-M32	17
DPR16S-PE-ISD-CB50-M32	17
DPR16S-PE-ISD-CB70-M32	17
DPR16S-PE-ISD-CB95-M32	17
DPR16S-PE-ISD-CLG35-M32	19
DPR16S-PE-ISD-CLG50-M32	19
DPR16S-PE-ISD-CLG70-M32	19
DPR16S-PE-ISD-CLG95-M32	19
DPR16S-PE-UIS-CB35	13
DPR16S-PE-UIS-CB50	13
DPR16S-PE-UIS-CB70	13
DPR16S-PE-UIS-CB95	13
DPR16S-PE-UIS-CLG35	15
DPR16S-PE-UIS-CLG50	15
DPR16S-PE-UIS-CLG70	15
DPR16S-PE-UIS-CLG95	15
DPR16S-SDD-CB35M32	21
DPR16S-SDD-CB50M32	21
DPR16S-SDD-CB70M32	21
DPR16S-SDD-CB95M32	21
DPR16S-UIS-CB35	13
DPR16S-UIS-CB50	13
DPR16S-UIS-CB70	13
DPR16S-UIS-CB95	13
DPR16S-UIS-CLG35	15
DPR16S-UIS-CLG50	15
DPR16S-UIS-CLG70	15
DPR16S-UIS-CLG95	15
DPR28P-ISD-CB120M50	17
DPR28P-ISD-CB150M50	17
DPR28P-ISD-CB185M50	17
DPR28P-ISD-CB240M50	17
DPR28P-ISD-CLG120M50	19
DPR28P-ISD-CLG150M50	19
DPR28P-ISD-CLG185M50	19
DPR28P-ISD-CLG240M50	19
DPR28P-PE-ISD-CB120M50	17
DPR28P-PE-ISD-CLG120-M50	19
DPR28P-PE-UIS-CB120	13
DPR28P-PE-UIS-CLG120	15
DPR28P-SDD-CB120M40	21
DPR28P-SDD-CB150M40	21

Туре	page
DPR28P-SDD-CB185M40	21
DPR28P-SDD-CB240M50	21
DPR28P-UIS-CB120	13
DPR28P-UIS-CB150	13
DPR28P-UIS-CB185	13
DPR28P-UIS-CB240	13
DPR28P-UIS-CLG120	15
DPR28P-UIS-CLG150	15
DPR28P-UIS-CLG185	15
DPR28P-UIS-CLG240	15
DPR28S-ISD-CB120M50	17
DPR28S-ISD-CB150M50	17
DPR28S-ISD-CB185M50	17
DPR28S-ISD-CB240M50	17
DPR28S-ISD-CLG120M50	19
DPR28S-ISD-CLG150M50	19
DPR28S-ISD-CLG185M50	19
DPR28S-ISD-CLG240M50	19
DPR28S-PE-ISD-CB120M50	17
DPR28S-PE-ISD-CLG120-M50	19
DPR28S-PE-UIS-CB120	13
DPR28S-PE-UIS-CLG120	15
DPR28S-SDD-CB120M40	21
DPR28S-SDD-CB150M40	21
DPR28S-SDD-CB185M40	21
DPR28S-SDD-CB240M50	21
DPR28S-UIS-CB120	13
DPR28S-UIS-CB150	13
DPR28S-UIS-CB185	13
DPR28S-UIS-CB240	13
DPR28S-UIS-CLG120	15
DPR28S-UIS-CLG150	15
DPR28S-UIS-CLG185	15
DPR28S-UIS-CLG240	15
F/M14 DIN6798A BN781	25
F/M20 DIN6798A BN781	27
H35N/M14	25
H50N/M14	25
H70N/M14	25
H95N/M14	25
H120N/M20	27
H150N/M20	27
H185N/M20	27
· · · · •	

H240N/M20/DDP

27

Туре	page
K-SCH35-14/K	25
K-SCH50-14/K	25
K-SCH70-14/K	25
K-SCH95-14/K	25
K-SCH120-20/K	27
K-SCH150-20/K	27
K-SCH185-20/K	27
K-SCH240-20/K	27
MU0,8D/M14 AG	25
MU0,8D/M20 AG	27
SI-RG A38 DIN471 FS	25
SI-RG A52 DIN471 FS	27
SI-RG A56 DIN471 FS	25
SI-RG A72 DIN471	27
SPD-DPR16-ISD	25
SPD-DPR16S/95-ISD	25
SPD-DPR28-ISD	27
UE/M14X1 AG	25
U/M20 AG	27



# Index, sorted by order no.

Order No.	Page
07.0022	25
08.0108	25
08.0111	27
08.0311	27
08.0404	25
08.0708	25
08.0711	27
17.0066	27
17.0067	25
17.1009	27
17.1003	27
17.1010	27
17.1013	25
17.1013	25
17.1014	25
18.0249	15
18.0250	15
18.0251	21
18.0252	21
18.0253	17
18.0254	19
18.0255	19
18.0262	17
18.0266	
18.0267	13
18.0268	13
18.0269	21
	21
18.0270	21
18.0271	21
18.0272	21
18.0273	21
18.0274	15
18.0275	19
18.0276	13
18.0277	17
18.0278	15
18.0279	19
18.0280	13
18.0281	17
18.0282	15
18.0283	19
18.0284	15
18.0285	19
18.0286	13

Order No.	Page
18.0287	17
18.0288	13
18.0289	17
18.0290	19
18.0291	19
18.0292	15
18.0293	15
18.0294	13
18.0295	17
18.0296	13
18.0297	17
18.0390	13
18.0391	13
18.0392	13
18.0393 18.0394	13
18.0395	13
18.0396	17
18.0397	17
18.0398	17
18.0500	21
18.0501	21
18.0502	21
18.0503	21
18.0504	21
18.0505	21
18.0506	21
18.0507	21
18.0520	17
18.0521	17
18.0522	19
18.0523	19
18.0524	17
18.0525	17
18.0526	17
18.0527	19
18.0528	19
18.0529	19
18.0530	19
18.0531	19
18.0532	19
18.0540	13
18.0541	13
18.0542	15

Order No.	Page
18.0543	15
18.0544	15
18.0545	15
18.0546	15
18.0547	15
18.0548	15
18.0549	15
18.0550	22
18.0551	22
18.0569	25
18.0570	27
18.0572	25
18.0580	15
18.0582	15
18.0584	19
18.0585	19
18.0586	13
18.0587	13
18.0588	17
18.0589	17
18.0620	13
18.0621	13
18.0622	13
18.0623	13
18.0624	13
18.0625	13
18.0626	13
18.0627	13
18.0628	15
18.0629	15
18.0630	15
18.0631	15
18.0632	15
18.0633	15
18.0634	15
18.0635	15
18.0636	19
18.0637	19
18.0638	19
18.0639	19
18.0640	19
18.0641	19
18.0642	19
18.0643	19

18.0644 17 18.0645 17 18.0646 17 18.0647 17 18.0648 17 18.0649 17 18.0650 17 18.0651 17 18.5609 27 18.5607 25 18.7560 27 18.7563 27 18.7566 27 18.7574 25 18.7580 25 33001199 25 33004292 27	Order No.	Page
18.0645     17       18.0646     17       18.0647     17       18.0648     17       18.0650     17       18.0651     17       18.5609     27       18.7560     27       18.7563     27       18.7574     25       18.7580     25       33001199     25		
18.0646     17       18.0647     17       18.0648     17       18.0649     17       18.0650     17       18.0651     17       18.5609     27       18.5805     27       18.7560     27       18.7566     27       18.7574     25       18.7580     25       33001199     25	18.0644	17
18.0647     17       18.0648     17       18.0649     17       18.0650     17       18.0651     17       18.5609     27       18.5805     27       18.7560     27       18.7563     27       18.7574     25       18.7580     25       33001199     25	18.0645	17
18.0648       17         18.0649       17         18.0650       17         18.0651       17         18.5609       27         18.5627       25         18.7560       27         18.7563       27         18.7574       25         18.7580       25         33001199       25	18.0646	17
18.0649     17       18.0650     17       18.0651     17       18.5609     27       18.5627     25       18.7560     27       18.7563     27       18.7574     25       18.7580     25       33001199     25	18.0647	17
18.0650     17       18.0651     17       18.5609     27       18.5627     25       18.5805     27       18.7560     27       18.7563     27       18.7574     25       18.7580     25       33001199     25	18.0648	17
18.0651     17       18.5609     27       18.5627     25       18.5805     27       18.7560     27       18.7563     27       18.7574     25       18.7580     25       33001199     25	18.0649	17
18.5609     27       18.5627     25       18.5805     27       18.7560     27       18.7563     27       18.7566     27       18.7574     25       18.7580     25       33001199     25	18.0650	17
18.5627     25       18.5805     27       18.7560     27       18.7563     27       18.7566     27       18.7574     25       18.7580     25       33001199     25	18.0651	17
18.5805     27       18.7560     27       18.7563     27       18.7566     27       18.7574     25       18.7577     25       18.7580     25       33001199     25	18.5609	27
18.7560     27       18.7563     27       18.7566     27       18.7574     25       18.7577     25       18.7580     25       33001199     25	18.5627	25
18.7563     27       18.7566     27       18.7574     25       18.7577     25       18.7580     25       33001199     25	18.5805	27
18.7566     27       18.7574     25       18.7577     25       18.7580     25       33001199     25	18.7560	27
18.7574     25       18.7577     25       18.7580     25       33001199     25	18.7563	27
18.7577 25 18.7580 25 33001199 25	18.7566	27
18.7580     25       33001199     25	18.7574	25
33001199 25	18.7577	25
	18.7580	25
33004292 27	33001199	25
	33004292	27



Stäubli UnitsRepresentatives/Agents

# Global presence of the Stäubli Group

www.staubli.com

