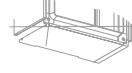




Look

for

these



Simple cable entries

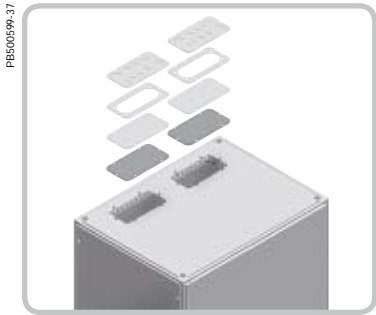
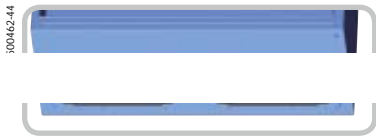


1
Look for these numbers on pages 4 to 7 for more detailed information

Multi-CR	Multi-H	Simple-1	Simple-2	Simple-3	Simple-4	Simple-5	Characteristics	
Cable entries with gasket for cables equipped with connectors.	FL21 insulated flange with ISO knockouts.	Mixed membrane entries for enclosure thickness 20/10' - 32/10' mm.	PVC adjustable cone-shaped entries for enclosure thickness 30/10' - 32/10' mm.	Quick cable entries for enclosure thickness 10/10' - 40/10' mm (5/10' - 20/10' mm for ref. IMT36179).	PVC adjustable cone-shaped entries for PG tubes or for enclosure thickness 12/10' - 15/10' mm.	ISO cable gland.	Description	
Polyamide	Polycarbonate glass-fiber reinforced	SBS	PVC	EPDM	PVC	PA6, neoprene gasket	Material	
-	RAL 7035	RAL 7035 light grey or RAL 9010 white	-	■ Grey: NCS 5500 ■ Black: NCS 9000	-	RAL 7035 grey	Colour	
Hard plastic		Soft membrane		Combined			Cable entry material 2	
Gasket reference NSYCEJD*** to be fitted	Yes	Not applicable					Cable glands to be fitted 3	
On cable gland plate adapter or directly on enclosure		On cable gland plate or directly on enclosure					Cable entries installation 4	
Low	Low	Low					Flexibility of the installation 5	
Medium	Medium	Medium					Reversibility 6	
IP54	IP65	IP55	IP55	IP67	IP55	IP68	Ingress protection rating 7	
High (with fastener)	High (with cable clamp)	Low	Low	Medium	Low	High	Cable retention 8	
From 3 to 31	From 12 to 25	From 20 to 40	From 5 to 87	From 12 to 50	From 16 to 44	From 12 to 40	Cable diameter (mm) 9	
Slow	Slow	Fast	Fast	Fast	Fast	Slow	Cable Installation time 10	
++	++	+	+	+	+	+	Quantity (max number of cables) 11	
Yes	No	No	No	No	No	No	Cables with connectors 12	
36 x 91 (NSYDCE168) 36 x 112 (NSYDCE24*) 146 x 58	FL21 215 x 85	Various circular hole diameters according to cable diameter						Cut-out dimensions (mm)
-	UL94-V1	-	Ø 25 to 98	-	Ø 25 to 52	Ø 15 to 46	External dimensions (mm)	
-	-	-	-	-	-	Glow wire resistance: 960°C	Certificates	
-	-	-	-	-	-	Compliance with VDE, UL and CSA	Standard	
650°C	750°C	750°C	-	750°C	-	750°C	Flame resistance	
-	■ For normal operation: -40°C to +80°C ■ For a short time: -40°C to +120°C	-	-	-	-	-	Temperature range	
NSYDCE168 NSYDCE240 NSYDCE244 NSYDCE2410	NSYTSAKFL	RAL 9010 IMT36172 IMT36173 RAL 7035 ISM71071 ISM71072 ISM71073 ISM71074	NSYECPC3 NSYECPC5 NSYECPC6 NSYECPC9 NSYECPC15	IMT36179 IMT36180 IMT36181 IMT36182 IMT36183 IMT36184 IMT36185	NSYEC1 NSYEC2 NSYEC3 NSYEC4 NSYEC5 NSYEC6 NSYEC7	ISM71501 ISM71502 ISM71503 ISM71504 ISM71505 ISM71506 IMT36150 (3)	References*	

(3) Cable-gland with high resistance to fire.







4 Installation possibilities

There are 4 ways to install your cable entries on the enclosure :

- **By replacing the cable gland plate:** the standard cable gland plate of your S3D wall-mounting enclosure is unscrewed and replaced by the cable entry. A gasket between enclosure and cable entry will provide full water and dust tightness.
- **On modified cable gland plate:** the standard cable gland plate is unscrewed and machined. A cut-out is created in it.
- **On cable gland plate adapter:** this plate, which has the outer dimensions of a standard cable gland plate, has one or more pre-cut cut-outs of standard dimensions (E1, E2 and E3). This plate can replace the standard cable gland plate once the cable entry is fitted into it. On polyester enclosures, a cut-out must be created. Schneider Electric provides this service: a precise laser cut-out is factory created upon request. On steel floor-standing enclosures, you may either use the specific cable gland roof or create a cut-out (*see expert's tip 1*).

Cable gland plate adapters				
Enclosure range	1 membrane	2 membranes	3 membranes	4 membranes
Special S3D	 PB500604-16	 PB500604-15		



Full flexibility.



Medium flexibility.

5 Flexibility of the installation

Characterizes the consequences for the cable entry of the addition or the removal of cables.

- **Full flexibility:**
 - no consequence whatever the quantity, the diameter and the position of the cables manipulated (see expert's tip 2).
- **Medium flexibility:**
 - the amount, diameter or position of cables can be changed to a limited extent.
- **Low flexibility:**
 - it is not possible to change the above parameters.

6 Reversibility

Characterizes the consequences on the characteristics of the cable entry as IP to the addition or the removal of cables.

- **Full reversibility:**
 - no consequence.
- **Medium reversibility:**
 - for soft membranes, once the cable has been removed, there may be a loss of IP depending on the size of the cable and the cut. For hard plastic entries or combined material entries, initial characteristics are regained by adding plugs.
- **Low reversibility:**
 - the cable entry must be completely replaced in order to regain the initial characteristics.

7 Degree of protection (IP)

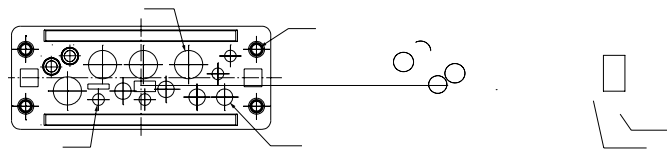
If an enclosure is to be used in a clean, dry and well insulated environment, lower levels of IP may be acceptable (IP54 or IP55). In a dusty environment you may require higher IP levels, such as IP65 or IP68 (see expert's tip 4).

8 Cable retention

Choose the right level of cable retention according to your needs. For locations accessible to the public, preferably choose a high level of cable retention.

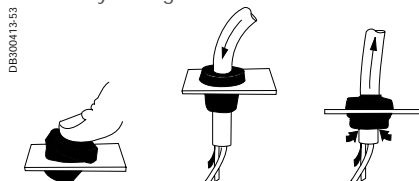
9 Cable diameter

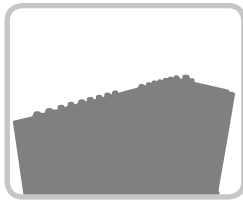
Choose the cable entry seal according to the cable diameter. Take into account cable diameter tolerances.



10 Cable installation time

Each cable entry has different installation characteristics. Some can be installed easily and quickly thanks to the soft membrane. Take this into account depending on labour costs in your region.





11 Quantity (max number of cables)

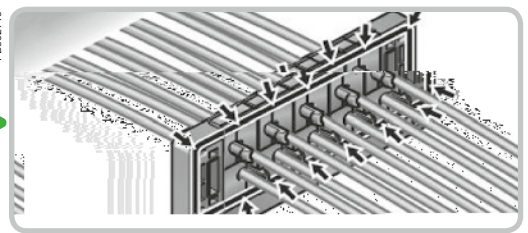
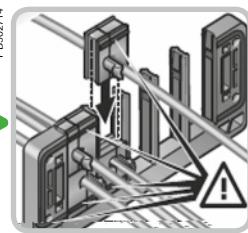
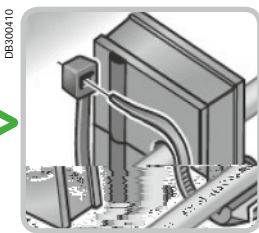
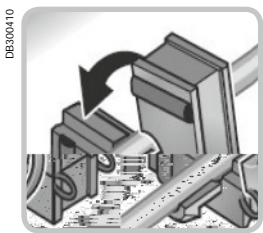
For some installations, a large quantity of cables must go through the cable entry. Some cable entries can receive a high density of cables, which can result in more economical installation (fewer cable entries to be bought). For small enclosures, it may simply be impossible to install too many cable entries due to the available space on the enclosure's wall (*see expert's tip 3*).



12 Cable entries for cables with connectors

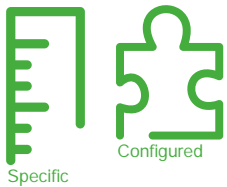
Some cables have large connectors which cannot be pushed through tight cable clamps or cable seals.

These cable entries have the unique advantage of not requiring the cable to be cut, thanks to the snap-fitting system.



A high cable retention force is provided thanks to the integrated cable fastener.

[!] Expert's tip

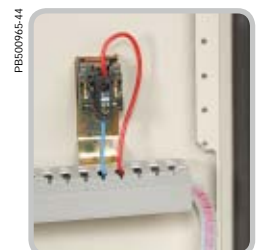
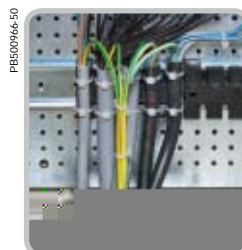


1 • Some cable entries require cut-outs to be machined on the enclosure or cable gland plate. Our customized **o**er provides this service. The quality of your enclosure will therefore be guaranteed since the painting operation is performed after creating the cut-outs.

2 • Installing a cable entry with full flexibility is the solution when a large series of enclosures is being prepared for different types of installations. By using one combination of enclosure-cable entry, you can cover a large variety of installations!

3 • When the cable entry has been defined, the next step is cable management inside the enclosure. For correct thermal management, all wires must be fitted and attached so as not to create an obstacle for correct air flow. Consult our Universal Enclosures catalogue for cable management accessories (such as cable ducts) and consumables (such as cable ties).

4 • When your environment requires a high level of IP for your installation, make sure you have an appropriate thermal management system to avoid condensation or overheating problems. Consult our Thermal Management **o**er in our Universal Enclosures catalogue and our Control Panel Technical Guide related to this issue.



Spacial FlexiCable

The revolutionary cable entry plate!

IP55

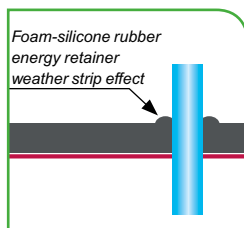
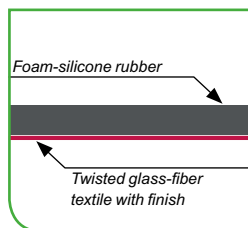
Max Ø
26 mm

Fire
resistant
650°C

Short
circuit
validated
250 A, 25 kA

- For cable diameters up to 26 mm.
- Number of cables limited only by the size of the plate.
- Copper or aluminium.
- Rigid or multiwire.
- Power, control or IT.

Exclusive, patented technology:
composite material, made of reticulated
foam-silicone rubber combined with
high-performance glass fiber textile
(Siltop® by Ferrari SA).



No marking,
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