COMMSCOPE®

FOSC-400BG

INSTALLATION INSTRUCTION

TC-927-IP
Rev A, Mar 2017
www.commscope.com

FOSC-400B closure with gel sealing

Content

1 General information

The installation instruction describes the necessary steps to install the FOSC-400BG. The used optical fiber cables may consist of a loose tube, slotted core, central core or ribbon construction depending on the type of FOSC kit. Illustrated are the loose tube construction and fusion splicing protected by heat-shrinkable splice protectors.

The FOSC-400BG can accommodate up to 6 splice tray organizers. One tray can accommodate up to 24 fiber splices.
The closure is a single-ended design made of a thermoplastic material. The base and dome are sealed with a clamp and an O-ring system. One oval entry port for looped (uncut) cable management and two round ports for single cable entry/exit are included in the base. Both heat shrinkable cable seals and multi-out cold gel seals can be used for cable sealing.

The FOSC-400BG can be installed in direct buried, manholes or aerial locations. The kit contents listed in this installation instruction reflect the standard contents. Alternative configurations are possible.

2 Kit content

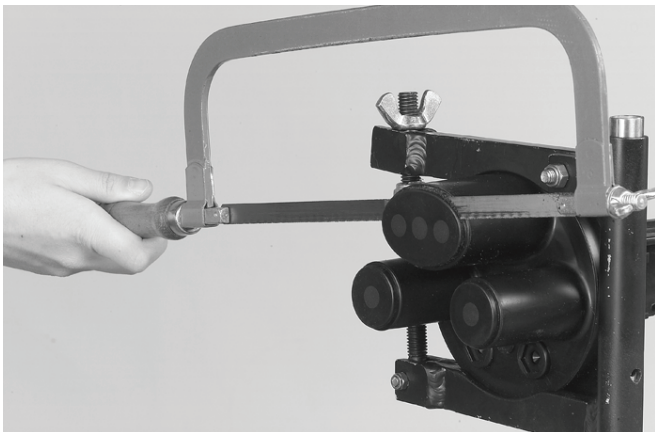
- Dome
- Base with tray holder
- Clamp
- O-ring
- Silica gel
- Hook and loop fastener

3 Installation

3.1 Preparation of the closure

3.1.1 Open and remove the clamp, remove the dome and o-ring.

3.2 Preparation of the oval port

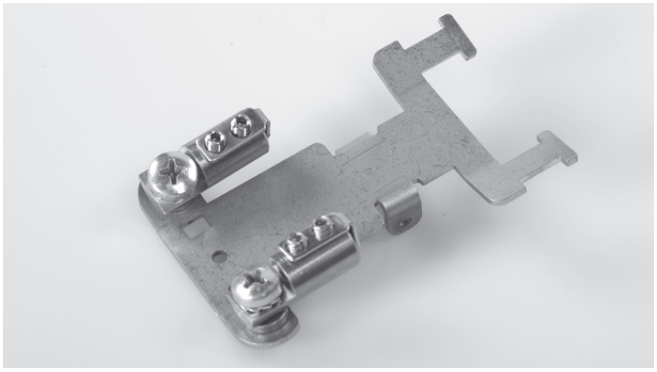


3.2.1 Open the port; the cutting wire can be used. Make sure inner edges are free of burrs!

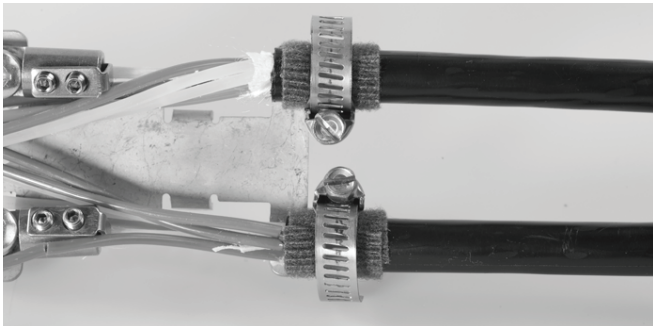
3.3 Preparation of the loop cable

Make a window cut of 2.60 m, cut strength member at 45 mm.

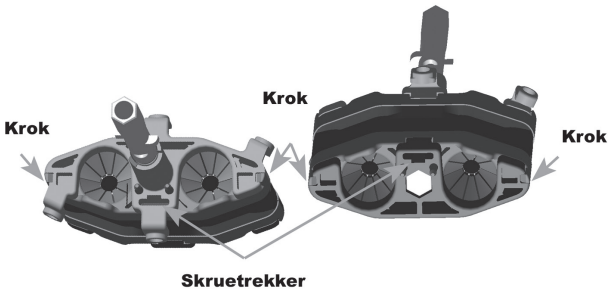
3.4 Loop cable mounting



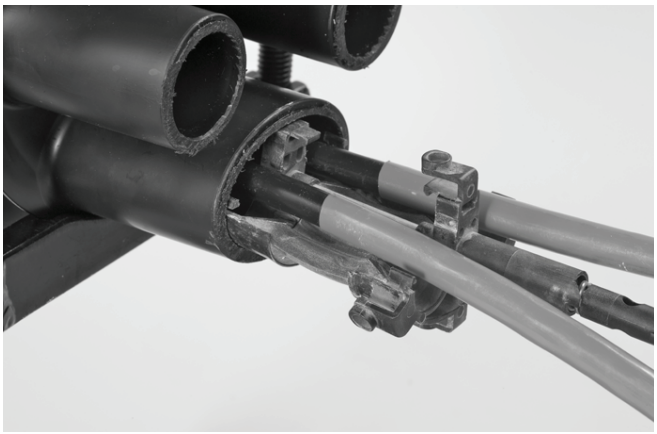
3.4.1 Fix the 2 strength member connectors to the metal cable holder as shown.

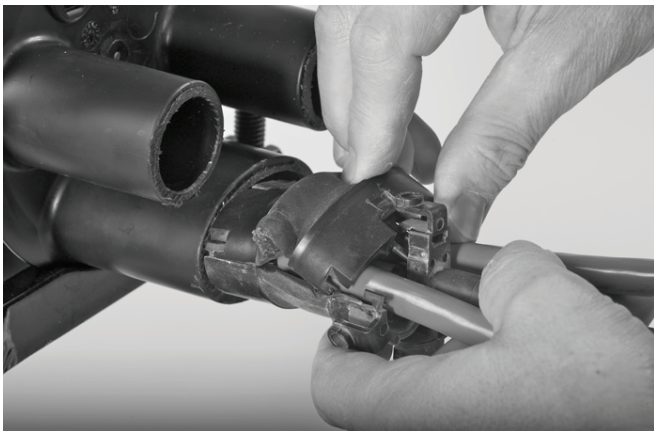


3.4.2 In case of cables with a soft cable jacket, wrap some foam at the end of the cable jacket. Install the strength members under the metal plates and secure the 2 screws. Make sure that the loose tubes are free to handle! Install the 2 hose clamps over the foam and tighten.

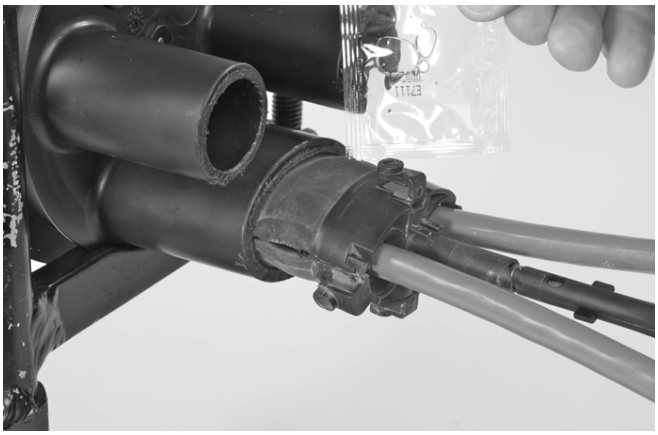


3.4.3 Feed the loop trough the oval port such that the hose clamps are ± 5 cm in the port.

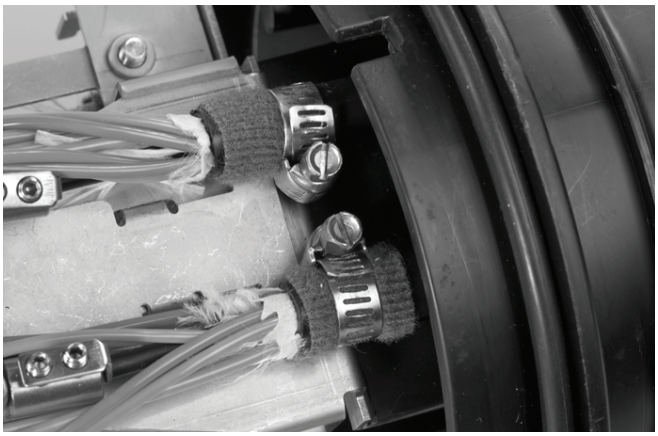


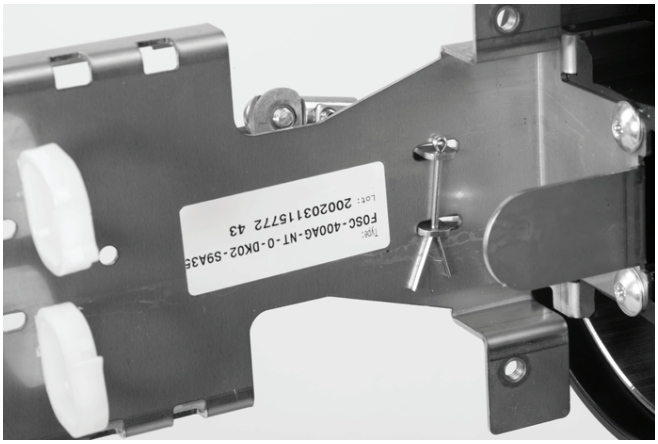


3.4.4 Take the first gel part (with trigger) and put the cables in place, if needed (when large cables) lubricate the cables. Take 2nd gel part and insert the pins in the corresponding holes at top and bottom. Push till snap fit (click).

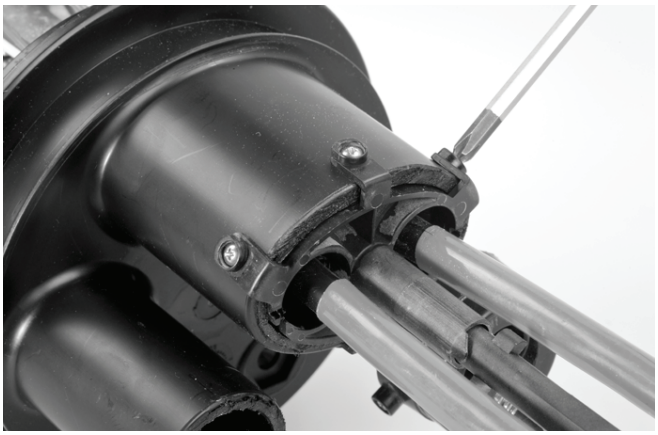


3.4.5 Lubricate the gel parts and insert the assembly.

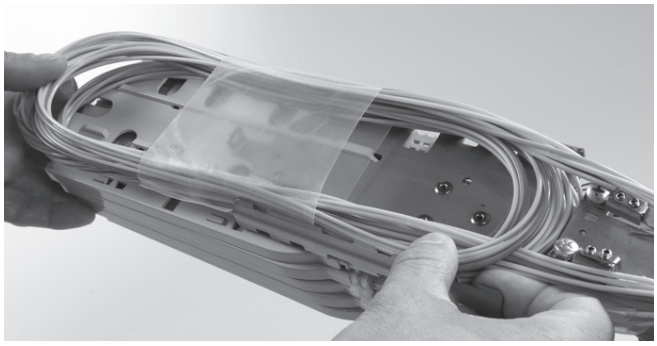




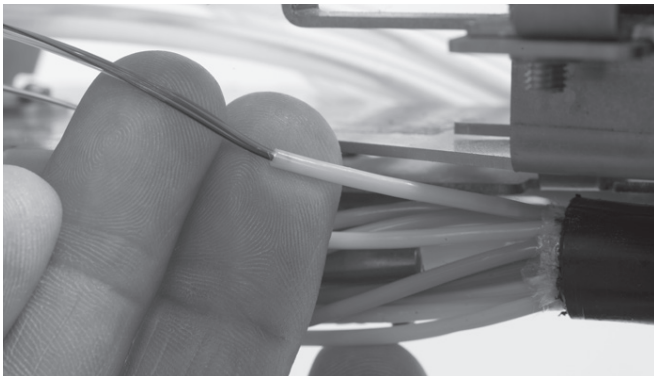
3.4.6 Move the assembly inwards and fix the metal bracket in the 2 corresponding slits, fix at the bottom side with the split pin.



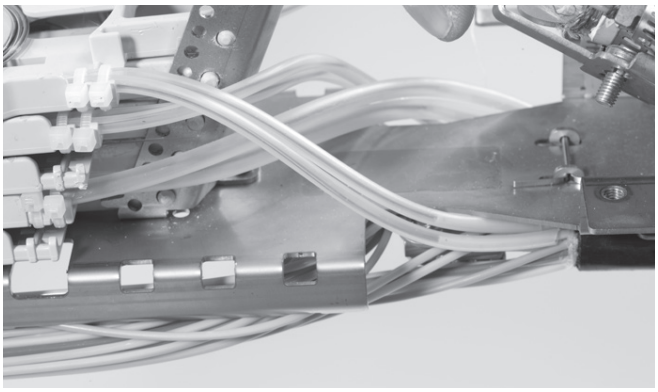
3.4.7 Make sure that the plastic hooks are flush with the edge of the port. Tighten the 4 screws; make sure that after tightening the hooks are even with the port base.



3.4.8 Take out the loose tube to be terminated and store the uncut loops in the plastic bag as shown.

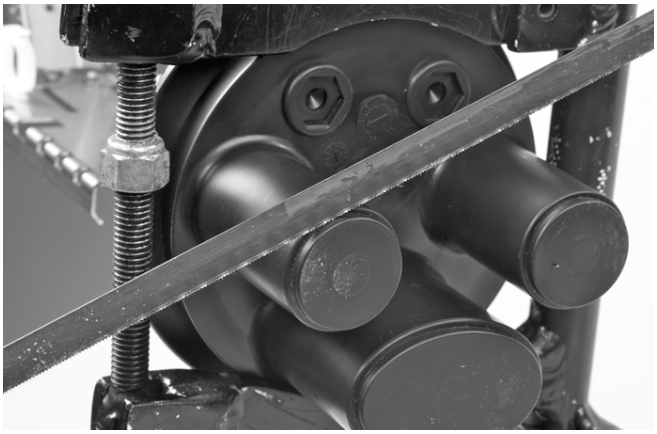


3.4.9 Strip the loose tube at 50mm of the cable jacket.

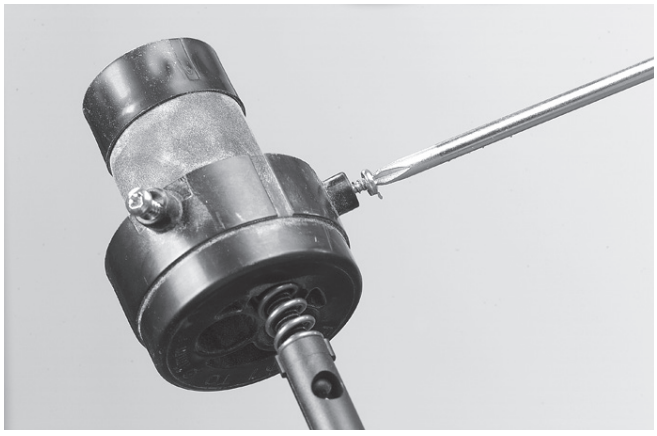


3.4.10 Determine the correct length of the transportation tube and fix with 2 tie-wraps to the tray. Knobs at the side! Avoid that the tube is passing the inner radius of the tray.

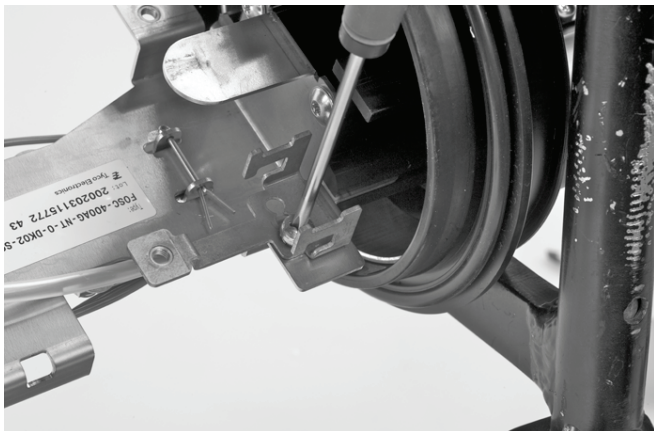
3.5 Installing drop cable (up to 16 cables cables)



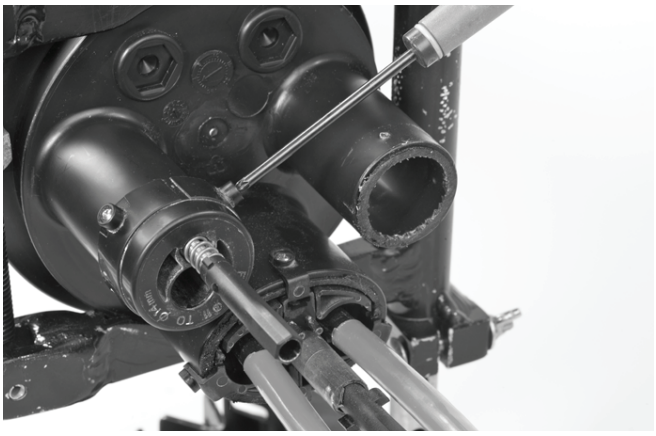
3.5.1 Open the port; the cutting wire can be used. Make sure inner edges are free of burrs.



3.5.2 Before installing the gel seal in the port, install 2 securing screws!



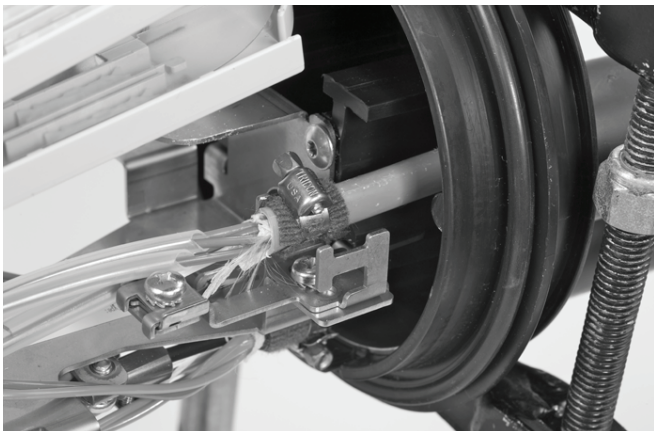
3.5.3 Fix the metal bracket as shown.



3.5.4 Install the gel seal in the port and secure the 2 screws, make sure they grip in the port.

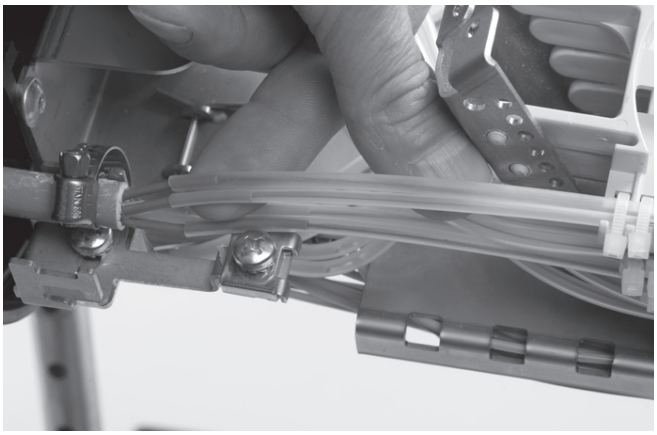
Drop cable preparation

3.5.5 Remove 1.3 m of jacket and cut strength member at 40 mm.



3.5.6 Feed the cable(s) trough the gel port. Pull back and secure the strength member(s) between the 2 metal plates and fix the cable jacket with the hose clamp as shown.(In case of cables with a soft cable jacket, wrap some foam at the end of the cable jacket).

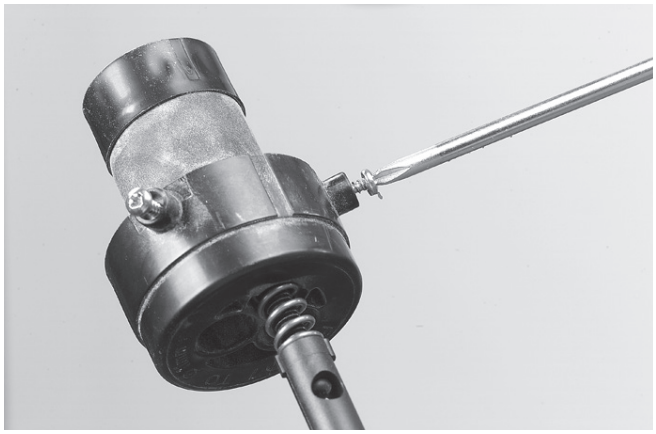
3.5.7 Tighten the trigger till it butts up with the flange. In case of 2 out when only 1 cable is installed, use the dummy rod.



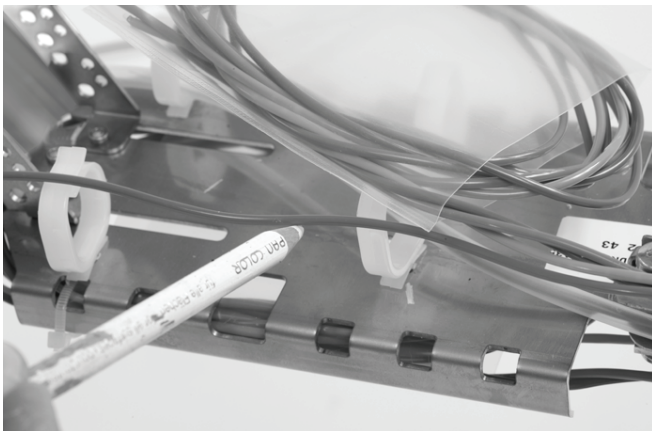
3.5.8 Strip the loose tube at 50 mm from the cable jacket. Determine the correct length of transportation tube towards the splice tray and fix with 2 tie-wraps. Knobs at the side!
Avoid that the tube is passing the inner radius of the tray.

4. Closing the closure

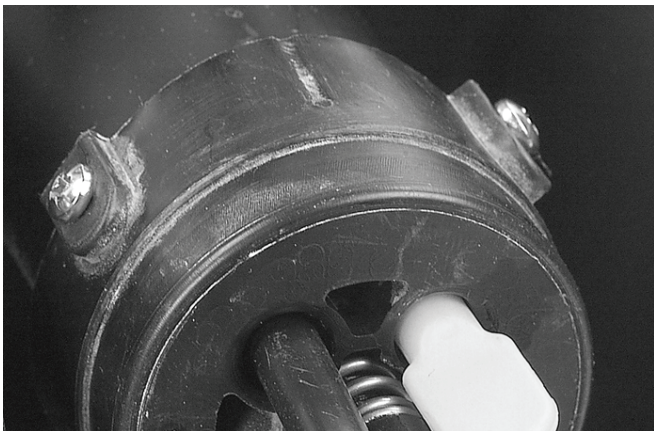
4.1 Install the cover on the tray and bundle the assembly with the hook and loop fastener as shown.



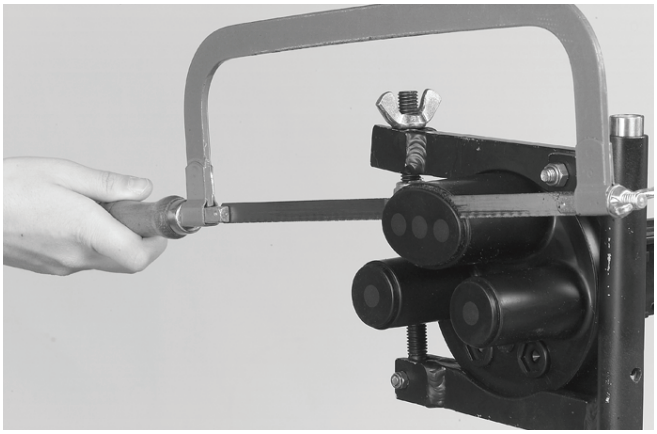
4.2 Take the silica gel out of the aluminum packaging and place on top of the tray, attach with some tape.



4.3 Put the o-ring in place; make sure it's free of dirt!



4.4 Position the dome so that the 2 arrows match.



4.5 Close of with the clamp.

To find out more about CommScope® products, visit us on the web at www.commscope.com

For technical assistance, customer service, or to report any missing/damaged parts, visit us at:
http://www.commscope.com/SupportCenter