

BGV low voltage cables

Definition :

Start point : this point defines the starting point of the cables pulling. It is the pillar of the mechanical detector support. The patch 1 will be fixed on rails to the support.

End point : this point defines the ending point of the cable pulling. It is the bottom of backside the LV rack

Cable 1 : between RPT board and patch 1 in tunnel.

Max. length : 7m
Type : NE26 SCEM : 04.21.52.140.4
13x2 shielded twisted pair 0,5mm²
External diameter 16,5 mm

Number of cables needed : 8

Connection:

- On RPT side : DSUB 25 pin female
- On patch side : screw terminal
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Remark : these cables can be prepared with the Dsub connectors. Length will be adjusted when connecting on patch in the tunnel.

Cable 2 : between patch 1 in tunnel and patch 2 on LV rack.

Max. length : 60m
Type : NG28 SCEM : 04.21.52.228.7
14x2 shielded twisted pair 1mm²
External diameter 20mm

Number of cable needed: 8

Connection :

- Screw terminal on both side
- Shield cable clamped to earth on both side

Remark :

- cables can be pulled between start and end point.
- Before start point leave at least 3m of cable for shield connection. Insulation will be removed to connect each wire on the screw terminal.
- After end point leave at least 3m of cable for shield connection. Insulation will be removed to connect each wire on the screw terminal.

Cable 3 : from patch 2 in LV rack to LV supply module

Max. length : 7 m
Type : MFX8L SCEM : 04.21.01.608.8
Signal 8 x 0,75mm²
External diameter 11,2 mm

Number of cables needed: 8\$

Connection :

- Screw terminal on patch 2
- Connector on LV module side if module needs connector, OR, screw terminal on LV module

Remark :

- Length of the cable adjusted during installation
- Connectors can be fixed on cable before installation if needed
- Cables can be installed after LV rack equipped with modules

Cable 4 : sense line cable from patch 1 to LV module

Max. length : 60m
Type : MCA26 SCEM : 04.21.48.326.7
13 x 2 shielded twisted pair 0,22 mm²
External diameter : 11,4 mm

Number of cable needed : 2

Connection :

- Screw terminal on patch 1 side
- AMP connectors on LV module side

Remark :

- At start point leave at least 3m for shield connection
- At end point leave at least 5m to reach LV module

