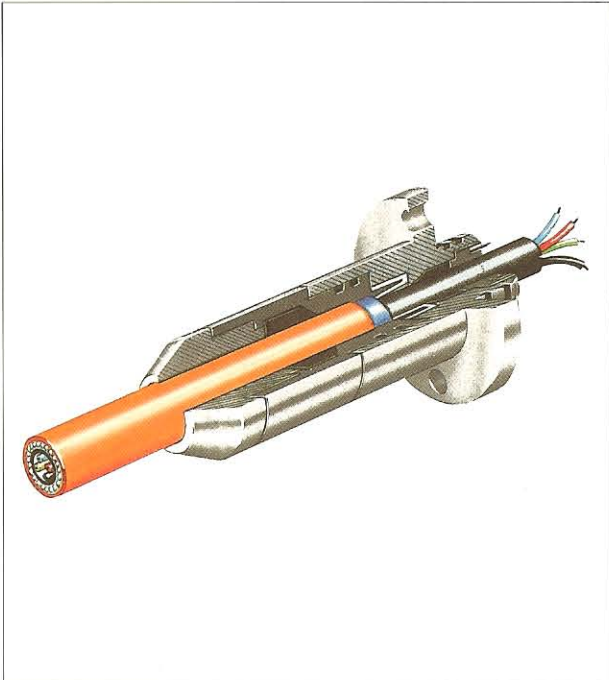
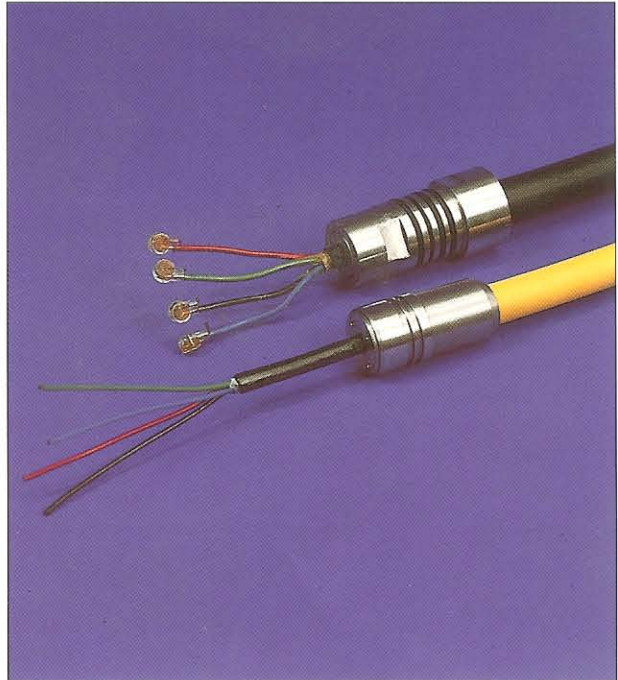


Geonor Cables and Cable Glands

for reliable geotechnical and structural instrumentation



Cross-section of P-434 gland and P-430 cable



Two versions of cables and glands

FEATURES:

- Proven long term reliability
- Internal water blocking
- Steel armouring
- Stainless steel gland
- Vented cable version available
- For use in earth/rock-fill dams, offshore structures, tunnels, embankments for landfills and highways
- Designed by the Norwegian Geotechnical Institute

 **Field Monitoring**



GEONOR P-430 AND P-540 CABLES - GEONOR P-434 CABLE GLAND

GEONOR P-430 CABLE

This 2-pair signal cable has been extensively used when very strong cables are required. Typical instrumentation applications are :

- dams and embankments
 - offshore structures
 - tunnels
 - embankments for waste disposals, landfills and highways
- The P-430 cable has a bitumen waterblock between the outer and inner sheaths and petroleum jelly between the inner sheath and the signal leads. Between the outer and inner sheaths a layer of OD 1.6 mm galvanized steel wires protects against shear forces and heavy tensile loads. Multi-pair cables of similar design are available on request.

GEONOR P-434 CABLE GLAND

The P-434 cable gland is specially designed for the P-430 steel armoured cable and Geonor vibrating wire sensors but is applicable also for other sensors. The gland is designed for high tensile loads up to 12 kN (2600 lb). Water blocking is provided through gaskets and O-rings. These protect from both water pressure outside cable/gland and internal water

pressure in the cable which might be caused by cuts in the cable sheath.

The gland is made of stainless steel for corrosion protection in soils containing moderately corrosive liquids.

The P-434 cable gland has performed extremely well in applications such as :

- earth/rock-fill dams
 - offshore structures
 - single installations (pore pressure, earth pressure)
- Glands with similar design for multi-pair cables and cables with other diametres are available on request. The P-434 cable gland is designed by the Norwegian Geotechnical Institute.

GEONOR P-540 TWIN JACKET CABLE

P-540 cable is designed for applications where minor loads are acting on the cable. The 1-pair cable is protected in a PE tube with open space between tube and cable. The cable is therefore mostly used in applications where a vented tube is needed, i.e. when atmospheric pressure inside the sensor is required. For instance, an in situ zero point check can be performed with the Geonor M-603 pore pressure sensor, using the P-540 cable.

TECHNICAL SPECIFICATIONS

Cable gland:	P-434	
Gaskets and O-rings :	Neoprene	
Material :	Stainless steel	
Dimensions :	OD 28 x 55 mm	
Pressure tested :	350 kPa for 1 month	
Tensile strength :	12 kN	
Cable:	P-430	P-540
Conductors :	OD 0.9 mm solid copper	0.3 mm ² tinned copper
Water block :	Petroleum jelly, bitumen	No (vented twin jacket)
Insulation :	Polyethylene (PE)	PVC
	Inner : OD 6.8 x 1,1 mm	Inner : OD 5.0 x 1.0 mm
	Outer : OD 16.0 x 3 mm	Outer : OD 10.0 x 2.0 mm
Armouring :	Galvanized steel wire, 15 (nos.) x 1.6 mm (OD)	

ORDER REFERENCES

Part no.	Equipment
461000	P-540 Cable, 1-pair, OD 10 mm, with protecting PE tube
461200	P-540-1 Cable, 1-pair, OD 5 mm, without protective tube
461400	P-430 Cable, 2-pair, OD 16 mm, steel armoured, water blocked
461600	P-434 Cable gland for P-430 cable

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