

ROFLEX[®] CH-N1BQ-F

Robust and flexible connection cable

Excellent solution –
better than
the standard

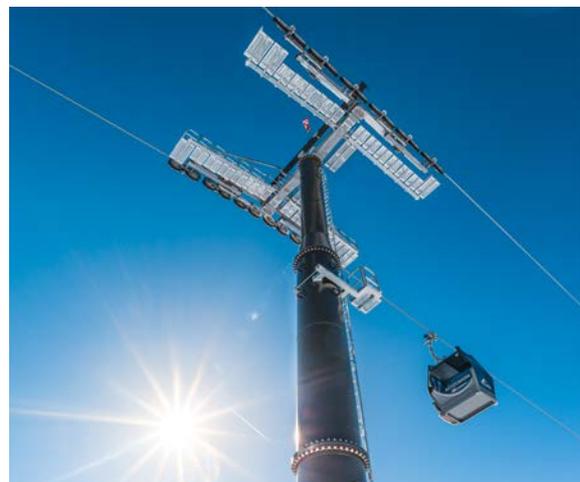
Benefits

- Good abrasion resistance
- Cold flexibility to -40°C
- Halogen free
- RoHS- and REACH-compliant
- Resistant to oil and fuel
- Good weather, ozone and UV resistance
- Resistant to hydrolysis



Application fields

- Fishfarm
- Snowmaking system
- Temporary power distribution
- Alpine Lift



Power and control cables with a Polyurethane outer sheath (commonly abbreviated PUR or TPU), increasingly replace the classical rubber cables in many application fields.

Standard designs are known as H05BQ-F or H07BQ-F and available from various suppliers. But ROFLEX® by Studer Cables offers a lot of additional advantages.

The combination of cross-linked Ethylene-Propylene-Rubber (EPR is a halogen free synthetic rubber) as wire insulation together with the well-known great properties of PUR as outer sheath results in an outstanding water resistance at increased electrical insulation properties. Successful use in practice for many years, such as applications with constant use in sea water, lake and river water, cooling water and long term tests in our laboratory facilities have confirmed this.

Even under conditions with pressure level up to 10 bar, which corresponds to an immersion depth of about 100 meters, **ROFLEX®** has proven itself. Constant use in water is possible up a temperature of +50°C.

Caused by the use of a customer specific polyurethane compound permanently excellent sliding characteristics are a further advantage of **ROFLEX®**.

This high-quality compound is used for the complete outer sheath, without an additional inner sheath, consisting of an inexpensive filling compound. This results in an outstanding mechanical protection of cores, for example if a vehicle crosses the cable.

Thanks to the additional UV-resistance **ROFLEX®** has a very broad application range. **ROFLEX®** is a supreme solution for flexible use indoor and outdoor under rough conditions, where on the other hand ordinary cables cannot fulfil these requirements.



The table below shows further advantages of **ROFLEX®** compared to the requirements for H05BQ-F and H07BQ-F according to the EN 50525-2-21:

Comparison Standard – ROFLEX®	≤1.0 mm ²		≥1.5 mm ²	
	H05BQ-F	ROFLEX®	H07BQ-F	ROFLEX®
Nominal voltage U ₀ /U	300/500V	300/500V	450/750V	600/1000V
Test voltage	2000V	3500V	2500V	3500V
Short term conductor temperature	+90°C	+120°C	+90°C	+120°C
Operating temperature fixed installation	-40°C to +80°C	-55°C to +90°C	-40°C to +80°C	-55°C to +90°C
Operating temperature occasionally moved	-30°C to +80°C	-40°C to +80°C	-30°C to +80°C	-40°C to +80°C

Connections – together with our customers

The market for the use of robust and flexible connection cable is growing rapidly. Studer Cables offers its customers much more than just cable solutions. In addition to detailed advice on implementation, we also offer our partners

- Cable layout and calculations
- Logistics to the point

Talk to us about your projects. Together we will find a suitable, efficient and sustainable solution.