

# Cable Solutions for Leisure Facilities

## ROFLEX® – No Compromise on Safety and Reliability



Power and control cables with a polyurethane outer sheath (often referred to as PUR or TPU) are increasingly replacing traditional rubber cables in many areas of application. Standard versions are known as H05BQ-F or H07BQ-F and are available from various suppliers. But **ROFLEX®** from Studer Cables offers much more.

### Maximum safety and reliability

Wherever safety is the top priority, **ROFLEX®** impresses with its outstanding reliability - ideal for wiring safety-critical systems, especially in amusement parks. Its special mechanical properties ensure optimum performance even under demanding conditions.

### Ideal combination of materials for maximum water resistance

The combination of cross-linked ethylene-propylene rubber (EPR – a halogen-free, synthetic rubber) as wire insulation and a high-quality PUR outer sheath ensures excellent water resistance and improved electrical insulation properties. **ROFLEX®** has proven itself even under extreme conditions:

- Pressure resistance up to 20 bar (corresponds to an immersion depth of approx. 200 meters)
- Permanent use in water up to +50 °C

## Advantages

- High flexibility
- Suitable for permanent water storage (AD8)
- Good abrasion resistance
- Flexible at low temperatures down to -40 °C
- Halogen-free
- RoHS and REACH compliant
- Oil and fuel resistant
- Good weather, ozone and UV resistance
- Hydrolysis resistant



## Studer Cables – Your partner for customized cable solutions

You can rely on our many years of experience and innovative strength in cable technology. Thanks to our high level of vertical integration and Swiss quality, we are able to respond to individual customer requirements.

Rely on Studer Cables for secure, sustainable and future-oriented cabling of your systems.

## Highest quality thanks to state-of-the-art technology

To ensure maximum product safety and quality, we invest in state-of-the-art production facilities and continuously research innovative polymer materials. As a result, our cables achieve or enable:

- Best insulating properties
- Higher temperature resistance
- Longer service life
- Easy handling
- Additional security features

**Rely on ROFLEX® – for safety and reliability without compromise**

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

## Comparison Standard – ROFLEX®

	≤1,0 mm <sup>2</sup>		≥1,5 mm <sup>2</sup>	
	H05BQ-F	ROFLEX®	H07BQ-F	ROFLEX®
<b>Nominal voltage U / U</b>	300 / 500 V	300 / 500 V	450 / 750 V	600 / 1000 V
<b>Test voltage</b>	2000 V	3500 V	2500 V	3500 V
<b>Short-term conductor temperature</b>	+90 °C	+120 °C	+90 °C	+120 °C
<b>Fixed operating temperature</b>	-40 °C to +80 °C	-55 °C to +90 °C	-40 °C to +80 °C	-55 °C to +90 °C
<b>Operating temperature occasionally moved</b>	-30 °C to +80 °C	-40 °C to +80 °C	-30 °C to +80 °C	-40 °C to +80 °C



Further information can be found in our data sheets on our website: <https://studercables.com/en/products/>

In addition to first-class products, Studer Cables offers comprehensive advice, precise calculations and other services. If you have any questions, please do not hesitate to contact us personally.