

# HYFLEX 50mm<sup>2</sup> Single Core Submersible Power & Control Cable

Saltwater, Oil & UV Resistant • Flexible & Robust Design • 600/1000V

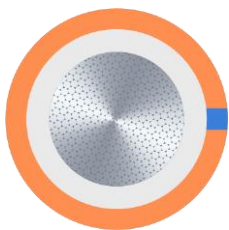


## Features & Benefits

**HYFLEX** cables in general are designed to offer exceptional flexibility and robustness, making them an excellent choice for deployment in harsh dynamic environments and where exposure to oil or high temperatures are considerations.

This specific **HYFLEX** variant has been designed with offshore industrial applications in mind; selecting material grades and construction parameters specifically suited to saltwater submersion and challenging marine environments.

## Cable Construction



### Conductor

50mm<sup>2</sup> Flexible Stranded Tinned Annealed Copper (IEC 60228 Class 5)

### Insulation

Extruded EPR (Ethylene Propylene Rubber) to BS 7655 Type GP4/GP7

### Sheath

Extruded PUR (Polyurethane)

## Colours & Identification

### Insulation Colour

Natural

### Outer Sheath Colour

Orange with Blue Stripe\*

\*Available in colour schemes to customer requirements

## Properties & Standards

### Design Standards

Generally to IEC 60502-1

### Electrical

Voltage Rating	600/1000	V
Max Conductor Resistance (@20°C)	0.393	Ω/km
Min Insulation Resistance (@20°C)	1000	MΩ/km

### Physical

Maximum Submersible Depth	200	m
Minimum Fixed Bend Radius	5	x OD
Minimum Dynamic Bend Radius	8	x OD
Approximate Weight	608.69	kg/km
UV Resistance	Yes	
Water/Saltwater Resistance	Yes	
Abrasion Resistance	Yes	
Ozone Resistance	Yes	Test Method EN/IEC 60811
Oil Resistance	Yes	Test Method EN/IEC 60811

### Temperature

Maximum Dynamic Temperature	80	°C
Minimum Dynamic Temperature	-40	°C
Maximum Fixed Temperature	90	°C
Minimum Fixed Temperature	-55	°C
Max. Short Term Fixed Temperature	120	°C

### Fire Performance

IEC 60754  
EN 60754

## Nominal Dimensions

Conductor Cross Sectional Area	50	mm <sup>2</sup>
Conductor Stranding	396/0.4	mm
Diameter over Insulation	12.54	mm
Outer Sheath Diameter	16.14	mm

