Leigh Cables
Brook Mill Industrial Estate • Leigh
Lancashire • United Kingdom • WN7 2AD

+44 (0) 1942 605 505
sales@leighcables.com
www.leighcables.com

HYFLEX 50mm² 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
50mm² 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	mm²
Conductor Stranding	396/0.4	mm
Diameter over Insulation	12.54	mm
Outer Sheath Diameter	16.14	mm