



Exploration & Production

ESP Cables

Flat Cables

DW 205 F COLD

Flat cable, which is specified when there is a tight fit between casing and tubing. For easier installation and maintenance, Prysmian ESP cables are shipped on reels of a continuous, splice-free length. Maximum permissible temperature is 205 °F (96 °C). Cable design specific for low temperature applications.

APPLICATION

Flat cable for low temperature applications. Maximum permissible temperature is 205 °F (96 °C). Downhole extraction systems are critical for crude oil extraction. The reliability of the electrical power supply to an Electrical Submersible Pump (ESP) system depends on the performance and reliability of the power feed through to the wellhead, power cable, motor lead cable, pig tail connectors and related equipment such as the pump and motor. Prysmian ESP cables offer an efficient, rugged and easy to handle solution that delivers reliable performance in a package that is straightforward to install and maintain.

STANDARDS & APPROVALS

IEEE 1018 as far as applicable.

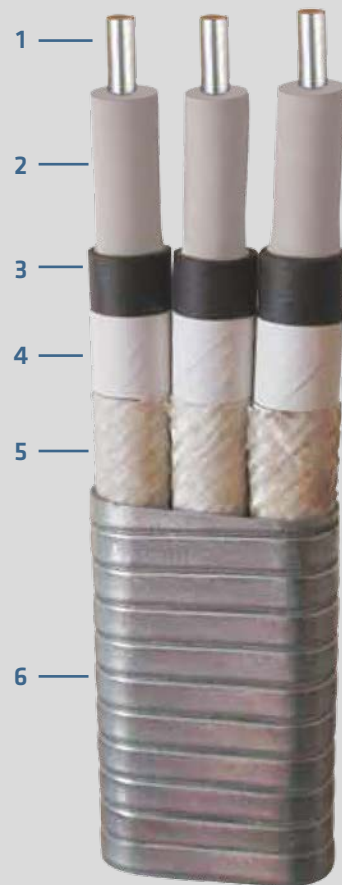
QUALITY & TESTING

Prysmian has a built-in multi-step quality assurance program, covering the production process from cable design and raw material purchases to final inspection and testing documentation.

The ISO 9001 quality system of Prysmian Group (together with ISO 14001 and OHSAS 18001) has been assessed, approved and is currently audited by SGS.

DESIGN & CONSTRUCTION

- 1 CONDUCTOR**
Solid tinned copper conductors.
- 2 INSULATION**
A high quality electrical grade High Density Polyethylene (HDPE) provides the ideal balance of physical, electrical properties and low temperature behaviour.
- 3 JACKET**
A tough High Density Polyethylene (HDPE) black jacket guarantees high oil, heat and low temperature resistance.
- 4 TAPE**
A suitable tape elically applied on the jacket layer, ensures an added protection to oil attack and core decompression.
- 5 BRAID**
If required a synthetic braid provides an additional reinforcement and hoop strength.
- 6 ARMOUR**
A 50% lapped, fully galvanized (4-sides) steel tape armour provides excellent mechanical protection with a high degree of flexibility and is available in thickness of 0.020" or 0.025". Stainless steel or Monel 400 armour is available for use in highly corrosive well environments.





Oil & Gas - Cable Solutions

Exploration & Production

ESP Cables

Flat Cables

PERFORMANCES / RATINGS

CHEMICAL RESISTANCE



galvanised steel tape: good
stainless steel tape: very good
monel tape: excellent

MAXIMUM AXIAL LOAD



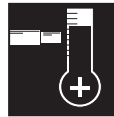
50 N/mm²

MIN. INSTALLATION TEMPERATURE



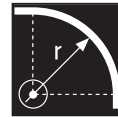
+49 °F
(-45°C)

MAX. RATED TEMPERATURE



+205 °F
(+96°C)

MIN. BENDING RADIUS FOR INSTALLED CABLES



7 times
major axis dimension

TECHNICAL DATA

DW 205 COLD F - 3 Conductors HDPE/HDPE/GSTA 3 kV

SIZE		CONDUCTOR STRANDS	CONDUCTOR DIAMETER		INSULATION THICKNESS		INSULATION DIAMETER		DIMENSIONS UNDER ARMOUR		OVERALL DIMENSIONS		WEIGHT		ELECTRICAL PARAMETERS	
(awg)	(mm ²)	(nr)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lb/kft)	(kg/km)	r	x
4	21,2	1	0,21	5,20	0,063	1,60	0,35	8,4	0.47x1.42	12.0x36.0	0.65x1.61	16.5x41.0	970	1450	0,332	0,048
6	13,3	1	0,16	4,10	0,063	1,60	0,31	7,3	0.43x1.29	10.9x32.7	0.61x1.50	15.5x38.0	770	1150	0,527	0,050

r = conductor electrical resistance at 205 °F | x= inductive reactance at 60 Hz

Note: overall dimensions and weights are based on 0.020" armour tape thickness

This product information sheet is provided for reference only.
For Voltage Drop/Ampacity data, please contact your Prysmian representative.