

Semoflex Spezial 4x1 cable is designed to connect EMS 121 Load Cell or EMS 122 combined load and position sensor to rod pump controller.

Construction of cable is straight part at a certain place turns into spiral(optional) and then again to the straight. The cable consists of 4 tinned copper conductors in tinned copper shielding with optical coverage 95%. On one side of cable is mounted Molex 03-09-1064 connector, on the other side are 4 wires and shielding.

To seal connection to load cell Cable Gland REMKE RSRS-206 is used



Fig. 1 Semoflex Spezial 4x1 cable

**Features:**

- High reliability
- Wide operating temperature range
- Spiral option
- Long life

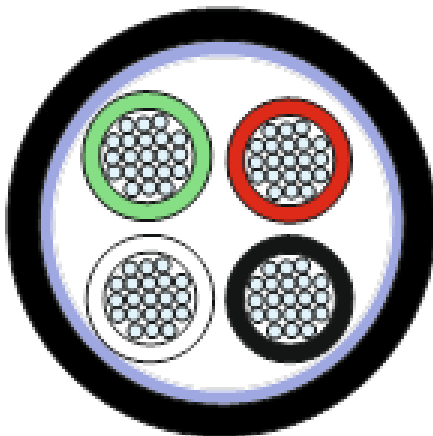
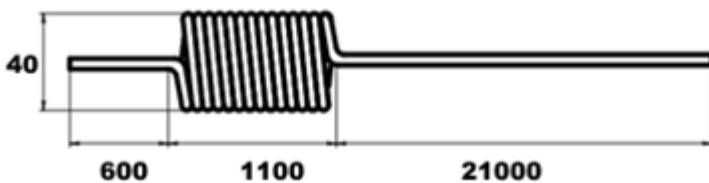


Fig. 2 Wires in the cable

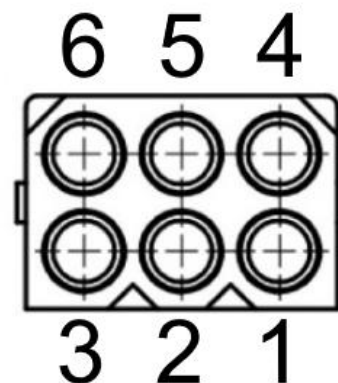


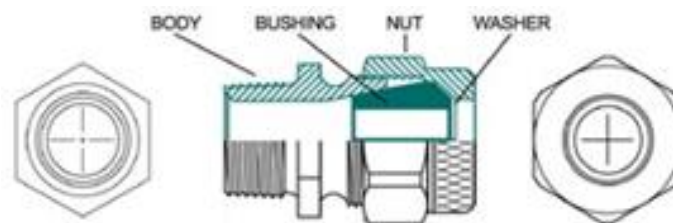
Fig. 3 Molex 03-09-1064 connector pinout

**Molex 03-09-1064 connector pin designations**

Connector pin №	Wire color	EMS 121 designation	EMS 122 designation
1	Red	Power supply	Power supply
3	Green	Load cell out +	Load cell out
4	Black	Load cell out -	GND
6	White	GND	ACC out

**Basic specifications**

Operating temperature	-40°C to +80°C
Conductor	tinned copper 56x0,15mm VDE 0295 class 6
Insulation	FEP 6Y11 VDE 0207 part 6
Wires colors	white, green, red, black
Core arrangement	4 strands
Braid	PTFE foil 1 layer 25% overlap
Shielding	0,1 mm tinned copper wires
Jacket	PUR halogen-free, flame retardant
Diameter, mm	7,0 ± 0,2
Voltage, V	300
Conductor resistance, Ω	> 0.7
Insulation resistance, MΩ	> 20
Length, m	23
Weight, kg	2,9



Cable gland REMKE RSRS-206 have conical  $\frac{3}{4}$  thread and made from stainless steel. Cable gland provides pressurization of load cell and its explosive protection.