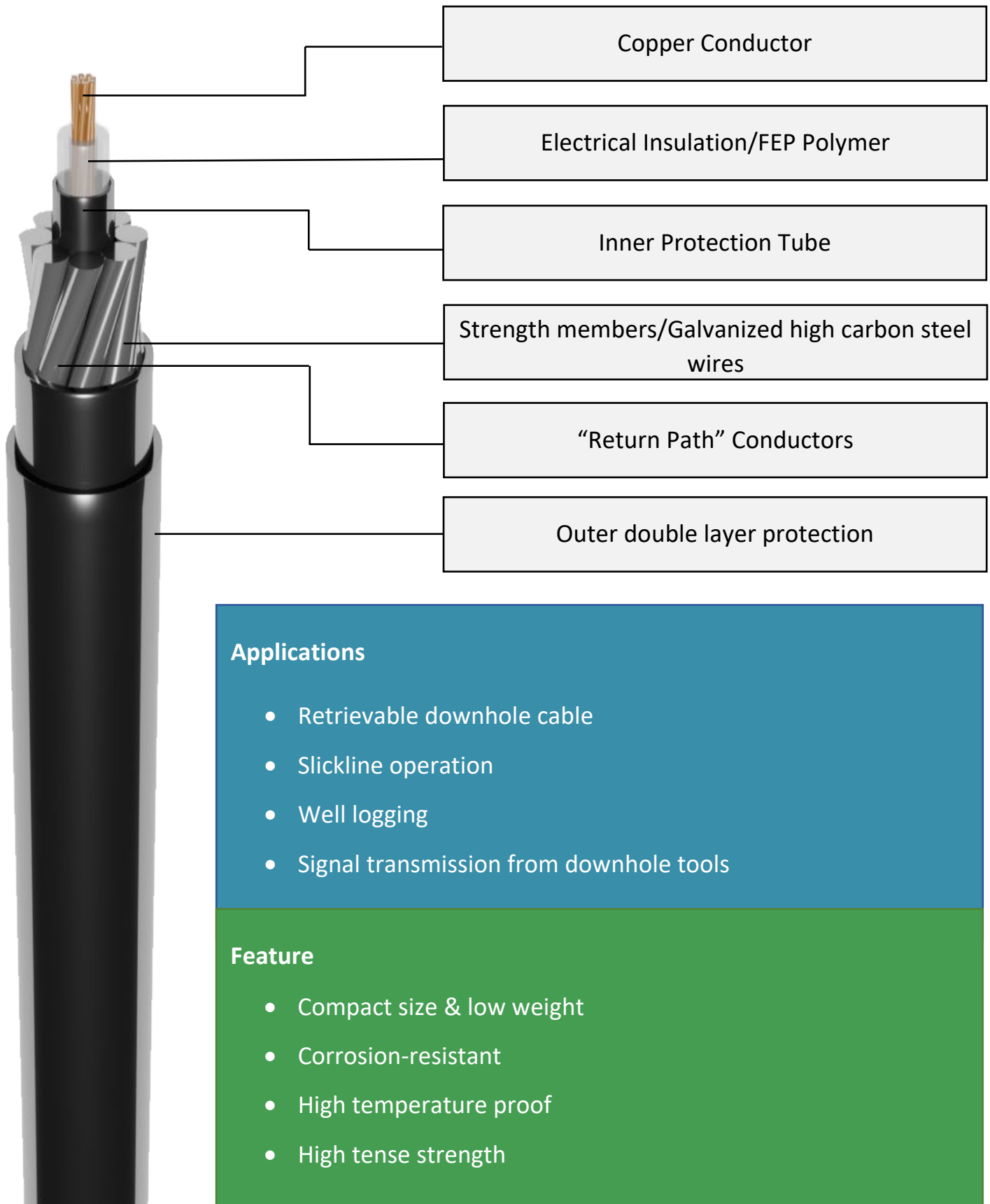


# PRODUCT DATASHEET

SLICKLIGHT-C-4.8x0.5mm-316L/825-1x0.75E/18

Ohm-14-200\*



**Applications**

- Retrievable downhole cable
- Slickline operation
- Well logging
- Signal transmission from downhole tools

**Feature**

- Compact size & low weight
- Corrosion-resistant
- High temperature proof
- High tense strength

## PRODUCT DATASHEET

### SLICKLIGHT-C-4.8x0.5mm-316L/825-1x0.75E/18

#### Ohm-14-200\*



Design details		
Copper conductors (number of wires x diameter)	AWG 18* (7 X 0.0149")	0.75 mm <sup>2</sup> (7 x 0.38 mm)
Insulation thickness	00.16"	0.415 mm
Inner protection tube wall thickness	0.008	0.2 mm
Inner protection tube material	Stainless steel AISI 304	
Strength members (number x diameter)	10 x 0.028"	10 x 0.7 mm
"Return path" conductors	3 x 0.028"	3 x 0.7 mm
Protection tube total wall thickness	0.020"	0.5 mm
Cable diameter	<b>0.189"</b> ± 0.003"	<b>4.8 mm</b> ± 0.07 mm
Cable weight	75 lb / 1000 ft	111 kg/km
Cable in water	63 lb / 1000 ft	93 kg/km
* closest equivalent AWG size. Real conductor size is indicated in mm <sup>2</sup>		
Operating parameters		
Operating temperature	-76°F...+390°F	-60°C...+200°C
Rated breaking strength	3 100 LBF	14 kN*
Maximum operation tension	1 500 LBF	7 kN*
Rated collapse pressure for protection tube	10 800 psi	740 bar
Minimum bending radius without tensile load	4"	100 mm
Minimum sheave diameter for maximum operation tension	20"	500 mm
* Preliminary value		
Electrical parameters		
Rated voltage	1000 VDC	
Electrical resistance of copper conductors (@20C/68F)	8.6 Ohm / 1000 ft	25 Ohm/km
Electrical resistance of "return path" (strength members + tube)	5.5 Ohm / 1000 ft	18 Ohm/km*
Capacitance	60 pF/ft	195 pF/m*
Insulation resistance (@20C/68F)	>1500 MOhm*kft	>500 MOhm-km
* Preliminary value		