

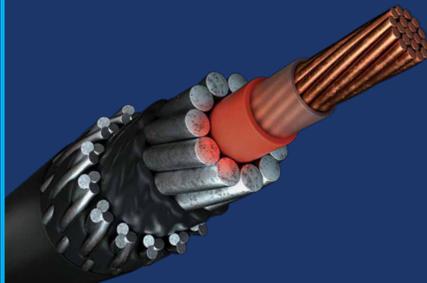
Meet the next generation of
EcoSeal[®] greaseless EMC

More efficiency.
More productivity.
Less NPT.

Take a deeper look at cable performance

The value of your wireline investment becomes clear the second it's deployed in a challenging field. With the latest version of EcoSeal® greaseless EMC from Camesa Wireline, that difference remains clear run after run.

**The new EcoSeal
is specifically
designed around
your evolving needs.**



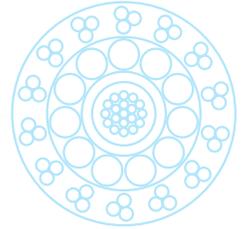
Camesa innovated coated electromechanical cable, and we continue to drive the field forward with the next generation of EcoSeal. Designed in collaboration with customers working in the world's most unconventional plays in onshore and offshore basins, the new EcoSeal is specifically designed around your evolving needs.

And with the support of Camesa's team of experts in your corner, tools and resources that help you make the most of EcoSeal are always just a call or click away.

Look beyond the surface

- 
- 1.** Proprietary EcoSeal® outer jacket
 - 2.** Tri-stranded outer armor with inner jacketing material embedded
 - 3.** Proprietary EcoSeal inner jacket
 - 4.** Inner single strand armor wire
 - 5.** Outer insulator material
 - 6.** Inner insulator material
 - 7.** EcoSeal Mono-Conductor 15 AWG copper conductor

*Actual size 0.36"



PROPERTIES

| | | | |
|--------------------------------------|-------------------|-----------------|--------------------------|
| Jacketed cable diameter | 0.359" | +0.004" -0.002" | (9.12 mm +0.10 -0.05 mm) |
| Cable armor diameter | 0.320" | +0.005" -0.002" | (8.13 mm +0.13 -0.05 mm) |
| Minimum sheave diameter | 26" | | (66 cm) |
| Cable stretch coefficient | 1.55" ft/Kft/Klbs | | (1.74 m/km/5kN) |
| Cable coefficient of friction | 0.2 | | |

ELECTRICAL

| | | |
|--------------------------------------|--------------------------------------|-------------------------------------|
| Maximum conductor voltage | 1,500 VDC | |
| Conductor AWG rating | 15 | |
| Minimum insulation resistance | 1,500 Mega Ω /kft @ 1,000 VDC | (457 Mega Ω /km @ 1,000 VDC) |
| Armor electrical resistance | 4.5 Ω /kft | (14.76 Ω /km) |

MECHANICAL

| | | |
|---------------------------------------|------------------------|-------------------|
| Cable breaking strength | | |
| Ends fixed | 9,000 lbs. | (40.0 kN) Nominal |
| Maximum suggested working tension | 5,000 lbs. and 22.2 kN | (22.2 kN) |
| Number and size of wires | | |
| Inner armor | 11 x 0.047" | (1.194 mm) |
| Outer armor | 14 x 3W Strand 0.043" | (1.092 mm) |
| Average wire breaking strength | | |
| Inner armor | 542 lbs. | (2.4 kN) |
| Outer armor | 191 lbs. | (0.85 kN) |

| Cable type | Core description | | | | | | | | Jacket | Cable weight | | |
|----------------|--------------------------------|---------------|------------|--------------|--------------------------------------|-------------------------------------|--|-------------------------------|----------------------------------|-------------------------|------------|---------|
| | Temperature rating °F °C | | | Plastic type | Insulation thickness in mm | Copper construction in mm | Res typical Ω /kft Ω /km | Cap typical pF/ft pF/m | | OD each in mm | Type | In Air |
| 1 hr. max temp | 8 hr. max temp | Cond max temp | lb/Kft | | | | | | kg/km | | | |
| 1Q36PTZ0EHStZ4 | 400 204 | 375 191 | 350 177 | FEP ETFE | 0.0135 0.343 0.0190 0.483 | 19 x 0.0142 19 x 0.361 | 2.8 9.2 | 54 177 | 0.098 2.489 0.136 3.454 | M-ETFE | 171 254 | 141 210 |



The next generation of EcoSeal[®]

Designed specifically for long, highly deviated, and horizontal wireline interventions, Camesa has engineered the latest evolution of EcoSeal to deliver more performance, efficiency, and reliability with less non-productive time.



Industry-leading polymer jacket

Our inside-out polymer-filled cable manufacturing process enables a cable jacket that reduces friction by up to 40%* and enables greaseless pressure control with unlimited running speeds.



Zero-torque design

The enhanced EcoSeal armor package eliminates NPT from loose, broken, or high wire and drastically reduces cable crush incidents.



No new tools necessary

High electrical capacity means the same tools you use with conventional wireline will work with EcoSeal.



A new partner in performance

In addition to industry-leading mechanical and electromechanical cable products, Camesa Wireline delivers superior service, including a mobile app, in-depth support, and educational resources to help you get the most from your investment.

* Compared to conventional electromechanical cable.

Think performance.
Think savings.
Think EcoSeal[®] by Camesa.

Ready to take a deeper look
at your wireline?

Contact us at (281) 344-0905
or visit comesawireline.com to learn more.

