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Nature, as a source of inspiration for development and innovation

Learn about animals with nature's most unique attributes; and its close resemblance to some of our best cables. enjoy it!



1



SMALLEST ANIMAL IN THE WORLD BEETLE (*Scydosella musawasensis*)

The smallest non-parasitic insect that has been discovered is the beetle of the species *Scydosella musawasensis*.

This beetle measures only 0.325 millimeters, making it impossible for humans to see it. This tiny animal reminds us of our monotube distribution cable, **ABD01**, whose diameter is 3.9mm.

ANIMAL WITH THE BEST CAMOUFLAGE SYSTEM FASPID (Phasmida)

Phasmids (Phasmida) are a genus that encompasses more than 3000 species capable of exceptionally camouflaging with the surrounding vegetation in such a way that they can pass for leaves or branches, acquiring the same color and texture as these.

We could say the same about our **UFO** (Unseen Fiber Optic), cable, used in FTTH installations, whose white color and small size make it almost imperceptible to our eyes.

2



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LONGEST-LIVING ANIMAL IN THE WORLD

Tu'i Malila", was a star tortoise of the species *Geochelone radiata*, from Madagascar; which is presumed to have lived 188 years, according to records. It was a gift made to the Queen of Tonga by Captain James Cook, who bought it in 1776 from a Dutch merchant in Cape Town.

Our R&D department puts an everyday effort to improve our cables' capabilities so that one day they could have a useful life like Malila's. For instance, our aerial loose tube cable, **ADSS**'s lifespan can reach up to 30 years without any external aggression.

MOST RESISTANT ANIMAL IN THE WORLD TARDIGRADE (*Ecdiso zoo*)

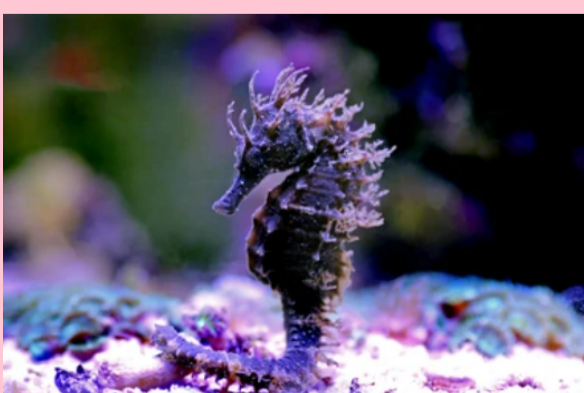
The tardigrade is part of a *phylum of ecdysozoans*; this microscopic animal can survive a frozen state of -272° exposed to outer space and an X-ray dose 500 times higher than one that would kill a human being.

Our family of "tardigrades" is mainly made up of our fire resistant loose tube cable, QFCI, whose fire resistance is 750° and our extreme temperature sensing cable **XTDS-FOSC**, capable of withstanding a temperature of -190°C .

4



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ANIMAL THAT SUPPORTS GREATER CRUSHING SEA HORSE (*Hippocampus guttulatus*)

These curious animals endure crushes that would destroy almost any other animal, due to the ability of their vertebrae to fold up to half their size during any compression.

This same attribute can be found in our **DPSP** metallic armoured multitube cable; capable of withstanding 4000N of crushing: 400 Kg-force.

6



ANIMAL BEARING HIGH FLEXIBILITY ARMADILLO (*Dasypus novemcinctus*)

Although his armor is perceived as rigid; the truth is that it is supremely flexible. This animal has a folding articulated armor made up of overlapping plates that give it great flexibility and mobility, allowing it a wide range of movements and protection from danger.

This same attribute can be found in our **CINFLEX** flexible industrial cable, whose flexibility allows it to withstand extreme bends and return to its original state without affecting its attenuation.

RESISTANT METAL ARMOR ANIMAL SCALY FOOT SNAIL (*Chrysomallon squamiferum*)

The scaly foot snail or sea pangolin (*Chrysomallon squamiferum*) is the only animal with naturally developed iron armor to reinforce its shell and cover its fleshy interior. Its shell is one of the hardest in the world. We can only find them in three hydrothermal vents in the Indian Ocean at a depth of 2,700 meters.

Without a doubt, one of our favourites, this magnificent animal can only be compared with our metal reinforced multitube cable, ideal for marine applications; **SWA PE**.

7



8



ANIMAL WITH THE GREATEST NUMBER OF LEGS MILLIPEDE (*Illacme plenipes*)

The species with the most number of legs is called "*Illacme plenipes*", it is a millipede that is characterized by having two pairs of articulated legs in most of its double body segments, that is; 375 pairs or 750 legs. This diplopod can be found in the central zone of the state of California, United States.

¿What if we name a family of cables "millipede"? It's first member would be the dielectric multitube cable, **DP 576FO**; the cable with the highest number of fibers with a total of 576, ever manufactured in Optral.

We hope you've enjoyed the infographic, find a whole more range of cables in our website:
www.optral.com

Sources: www.nationalgeographic.es, www.expertoanimal.com, <http://nickinscience.blogspot.com>,
<http://computerhoy.com>, <http://xatakaciencia.com>

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