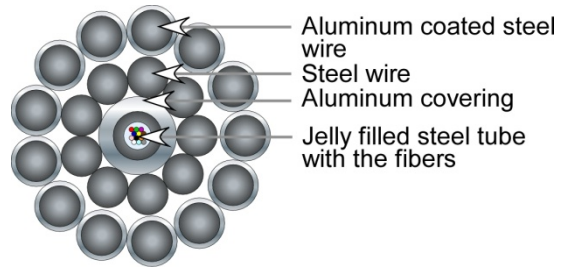


**OPGW 1+9+13 - Optical Ground Wire**



**Structure & composition**

Gel filled stainless steel tube with optical fibers.  
 Aluminium layer over the stainless steel tube.  
 1<sup>ST</sup> Layer made of 9 galvanised steel wires.  
 2<sup>ND</sup> Layer made of 13 aluminium coated galvanised steel wires.

**Description & applications**

Optical ground wire for high voltage overhead power lines.  
 OPGW cable runs between the tops of high-voltage electricity pylons.  
 Central tube with optical fibers to be used in telecommunications.

**Specifications**

	Fibers cable no.>	2 to 24	Standard
	Units		
Diameter	mm	15,8	
Nominal weight	Kg / Km	630	
RTS ( Rated Tensile Strength )	kN	85	IEC 60794-1-E1
Fault current	kA <sup>2</sup> -s	172	
Thermal elongation coefficient	1×10 <sup>-6</sup> / °C	14.9	
Minimum bend radius *	mm	500	IEC 60794-1-E10
Crush resistance *	N / cm	1500	IEC 60794-1-E3
Operating temperature range *	°C	-40/75	IEC 60794-1-F1

\* The attenuation in a given wavelength range does not exceed the attenuation of the reference wavelength (λ) by more than 0.05 dB/km

**Cable options**

For this general datasheet, number and fiber type must be chosen.

Fiber no.	Fiber type
2	9/125 Single mode fiber ITU-T G.652D
...	62.5/125 Multimode fiber TIA/EIA 492AAAA
24	50/125 Multimode fiber TIA/EIA 492AAAB
	OM3 Multimode fiber TIA/EIA 492AAAC
	G655 Non-zero dispersion-shifted ITU-T G.655

**Nomenclature / Cable reference**

Complete reference	Main Family	Fibers no.	Fiber type
<b>OPGW 1+9+13 - 24 FO 9/125</b>	OPGW 1+9+13	24	9/125
		24 fibers	G652D type
	Optical Ground Wire		

In order to improve performances, Sigma Network reserves the possibility to modify present datasheet without previous notice.