

# SFPOC-CENTRUM™

## Composit Fiber Optic Overhead Ground Wire(OPGW)

Composit Fiber Optic Overhead Ground Wire(OPGW) is a composite overhead optical groundwire that provides high capacity communication channels to service present and future needs.

SFPOC-Centrum™ features a high optical fiber count OPGW providing excellent communication capabilities within a small overall diameter.

Installation of SFPOC-Centrum™ is straight forward utilizing standard OPGW hardware and equipment.

SFPOC-Centrum™ is custom designed to satisfy each customer's specified communication and groundwire requirements for short circuit current capacity, tensile strength, fiber count and fiber type while complying to ASTM, IEEE or IEC International Standards.

SFPOC provides with its products a comprehensive range of services, including OPGW hardware, installation supervision, type testing and training.

### Optical Design Features

SFPOC-Centrum™ provides the type and number of optical fibers needed to meet customer's specific requirements while complying to ITU-T Standards.

SFPOC-Centrum™ features optical fibers placed loosely in a hermetically sealed stainless steel tube containing a gel filling compound to form an optical unit.

The optical fibers have low signal attenuation and wide band width allowing for long distance, high capacity communication.

Optical fibers are free from crosstalk and are not subjected to electromagnetic interference and polarization. They provide secure high quality signal transmission.

### Groundwire Design Features

Aluminum-Clad Steel and Aluminum Alloy wires are stranded around a central optical unit.

The Aluminum-Clad Steel wires and Aluminum Alloy wires provide the mechanical strength to withstand installation and operating conditions, while achieving the conductivity needed to control temperature rise during short circuit fault conditions.



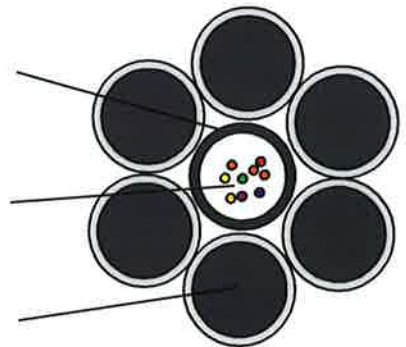
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# SFPOC-CENTRUM™ DESIGN FEATURES

Stainless Steel Tube  $\Phi$  3.6 mm

Optical Fiber

27%ACS  $\Phi$  3.7 mm



TYPICAL SFPOC-CENTRUM™ DESIGN	METRIC	IMPERIAL
Fiber count	48	48
Nominal Size	64mm <sup>2</sup>	0.098in <sup>2</sup>
Overall Diameter	11.1mm	0.437 "
Nominal Weight	415kg/km	0.279lb/ft
Minimum Tensile Strength	6500kgf	14,300lbs
Modulus of Elasticity	14300kgf/mm <sup>2</sup>	20,340kpsi
Coefficient of Linear Expansion	13.4 × 10 <sup>-6</sup> /°C	7.4 × 10 <sup>-6</sup> /°F
DC Resistance at 20°C	0.99 Ω/km	1.60 Ω/mile
Fault Current Capacity(Ambient=40°C)	27kA <sup>2</sup> sec	27kA <sup>2</sup> sec

#### TYPICAL FIBER TYPES AND ATTENUATION

Attenuation	Units	G.652	G.655
1310nm	dB/km	0.36	--
1550nm	dB/km	0.22	0.22

Typical Fiber Types are available in accordance to ITU-T Standards:G652&655 or IEC 60793,60794

\*SFPOC OPGW custom designed to meet each customer's specific technical requirements.

## Suzhou Furukawa Power Optic Cable Co.,Ltd.(SFPOC)

Our product was successfully type tested at Kinectrics Inc. , Toronto, Canada as per internationally recognized specification. SFPOC is the first OPGW manufacturer in China to have successfully completed all type tests including lightning tests on OPGW.

SFPOC, a joint venture of The Furukawa Electric Co. , Ltd. of Japan and Etern (Yongding) Group of China, is a global leader in manufacture and supply of Optical Ground Wire (OPGW).

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