

# Fiberlign<sup>®</sup> Suspension



## General Recommendations



The Fiberlign Suspension provides superior cable and fibre protection at the support point. The combination of structural reinforcing rods, outer rods, 'boltless' housing and resilient inserts reduces compression, clamping, and bending stresses on cable. Negative effects of wind-induced cable motion, such as aeolian vibration, galloping, and wind sway are also minimised.

Left-hand or right-hand lay style is provided to suit left-hand or right-hand lay OPGW respectively.

### **Integral grounding point:**

The current transfer tab provides direct electrical bonding between OPGW and a ground lead. The current transfer tab eliminates current transfer through components of the suspension unit.

### **Grounding wire assembly options:**

An earth bonding lead with compression terminal are provided. This assembly can be connected from the Fiberlign Suspension to the ground point in your system.

Higher fault current requirements can be accommodated by the use of a 'higher rated' current transfer tab or a second earth bonding lead. Consult PLP for recommendation.

### **Line Angles:**

The maximum recommended line angle for a single FIBERLIGN Suspension is 30°. For OPGW line angles between 30° and 60°, the FIBERLIGN Suspension: Double is recommended, although double dead-ending is another option.

- Product subject to cable design, constructions and testing.
- Contact PLP with project and cable specification for product recommendation.

# Fiberlign® Suspension



## Fiberlign® Suspension - Single



### Note:

- \* Substitute L for left hand Lay conductors
- \* Substitute R for Right Hand Lay conductors

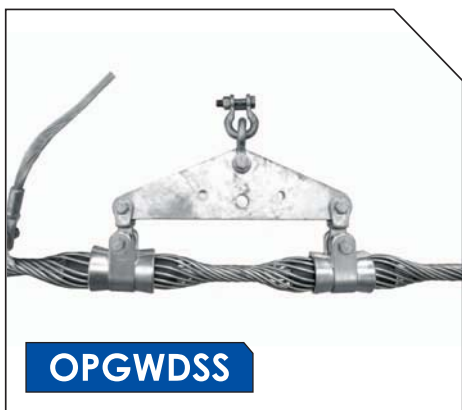
-2E detontes 2x earth bonding leads

### OPGWSS - Assembly contents

- Suspension body
- Structural rods
- Outer rods
- Current transfer tab with M16 Assembly
- 70 kN shackle
- 70 kN eye tongue
- Earth bonding lead with lugs

Single Part Number	Double Part Number	Diameter Range (mm)	Colour Code Inner	Colour Code Outer
OPGWSS-0900*C	OPGWDSS-0900*	9.00 - 9.68	Blue	Blue
OPGWSS-0969*C	OPGWDSS-0969*	9.69 - 10.11	Green	Green
OPGWSS-1012*C	OPGWDSS-1012*	10.12 - 10.62	Yellow	Yellow
OPGWSS-1063*C	OPGWDSS-1063*	10.63 - 11.15	Black	Black
OPGWSS-1116*C	OPGWDSS-1116*	11.16 - 11.63	White	White
OPGWSS-1164*C	OPGWDSS-1164*	11.64 - 11.71	Purple	Orange
OPGWSS-1172*C	OPGWDSS-1172*	11.72 - 12.09	Purple	Purple
OPGWSS-1210*C	OPGWDSS-1210*	12.10 - 12.78	Orange	Orange
OPGWSS-1279*C	OPGWDSS-1279*	12.79 - 12.98	Red	Purple
OPGWSS-1299*C	OPGWDSS-1299*	12.99 - 13.61	Blue	Blue
OPGWSS-1362*C	OPGWDSS-1362*	13.62 - 14.20	Green	Green
OPGWSS-1421*C	OPGWDSS-1421*	14.21 - 14.35	Green	Green
OPGWSS-1436*C	OPGWDSS-1436*	14.36 - 14.55	Black	Black
OPGWSS-1456*C	OPGWDSS-1456*	14.56 - 15-19	Black	White
OPGWSS-1520*C	OPGWDSS-1520*	15.20 - 15-80	Brown	Brown
OPGWSS-1581*C	OPGWDSS-1581*	15.81 - 16.05	Red	Red
OPGWSS-1581*-2E	-	15.81 - 16.05	Red	Red
OPGWSS-1606*C	OPGWDSS-1606*	16.06 - 16.92	Red	Blue
OPGWSS-1606*-2E	-	16.06 - 16.92	Red	Blue
OPGWSS-1693*C	OPGWDSS-1693*	16.93 - 17.32	Yellow	Green
OPGWSS-1693*-2E	-	16.93 - 17.32	Yellow	Green
OPGWSS-1733*C	OPGWDSS-1733*	17.33 - 18.03	Yellow	Yellow
OPGWSS-1733*-2E	-	17.33 - 18.03	Yellow	Yellow
OPGWSS-1804*C	OPGWDSS-1804*	18.04 - 18.49	White	Black
OPGWSS-1804*-2E	-	18.04 - 18.49	White	Black
OPGWSS-1850*C	OPGWDSS-1850*	18.50 - 18.90	White	White
OPGWSS-1891*C	OPGWDSS-1891*	18.91 - 19.05	White	White

## Fiberlign® Suspension - Double



### OPGWDSS - Assembly contents

- Suspension body x2
- Structural rods
- Outer rods
- Triangular yoke plate
- Shackles x2
- Clevis Tongue x2
- Earth bonding lead with lugs and current transfer tab