

# Cable Proposal CP2976

Issue S: 20/08/2020

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## 4-48f ULW Drop Cables

### Features and Benefits

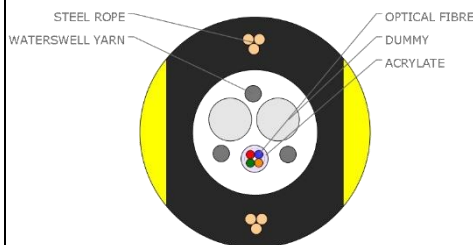
Sheath:	UV resistant HDPE
Colour:	Black with 2 yellow stripes (1.25mm wide)
Strain relief:	Twisted steel wires in outer wall
Span distance:	Recommended 55m Standard Maximum 68m ( $\leq 0.67\%$ fibre strain)* Exceptional Maximum 85m ( $\leq 0.8\%$ fibre strain)*

\*The strain values when subject to environmental loading, 97kph

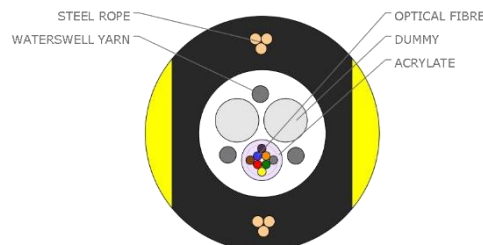
Standard fibre types:	Single mode to ITU-T G657A1, ITU-T G657A2, TBC with client
Fibre counts:	4 to 48 (configurations shown below and on page 2)
Fibre attenuation (20°C):	0.35 dB/km max at 1310 nm and 1383 nm 0.21 dB/km max at 1550 nm 0.23 dB/km max at 1625 nm

Design	Version A		
Fibre Counts	4, 8, 12, 24, 36	48	
Number of elements including fillers	3	4	
Element type	acrylate bundle, colour coded		
Element identification (other colours available)	Element colour: (1) blue, (2) orange, (3) green, (4) clear. Fillers, natural, when required. Single elements natural		
Fibre colours* *Other colours upon request, e.g EIA598	(1) blue; (2) orange; (3) green; (4) red; (5) grey; (6) yellow; (7) brown; (8) violet; (9) black; (10) aqua; (11) pink; (12) white		
Cable mass	38		kg/km
Cable outer diameter	7.0		mm
Bending radius static/dynamic	70/140		mm
Tensile strength (elastic limit)	1250		N
Break load	$\geq 1350 - < 2000$		N
High voltage test	11		KV

### Configurations



4f Illustration



8f Illustration

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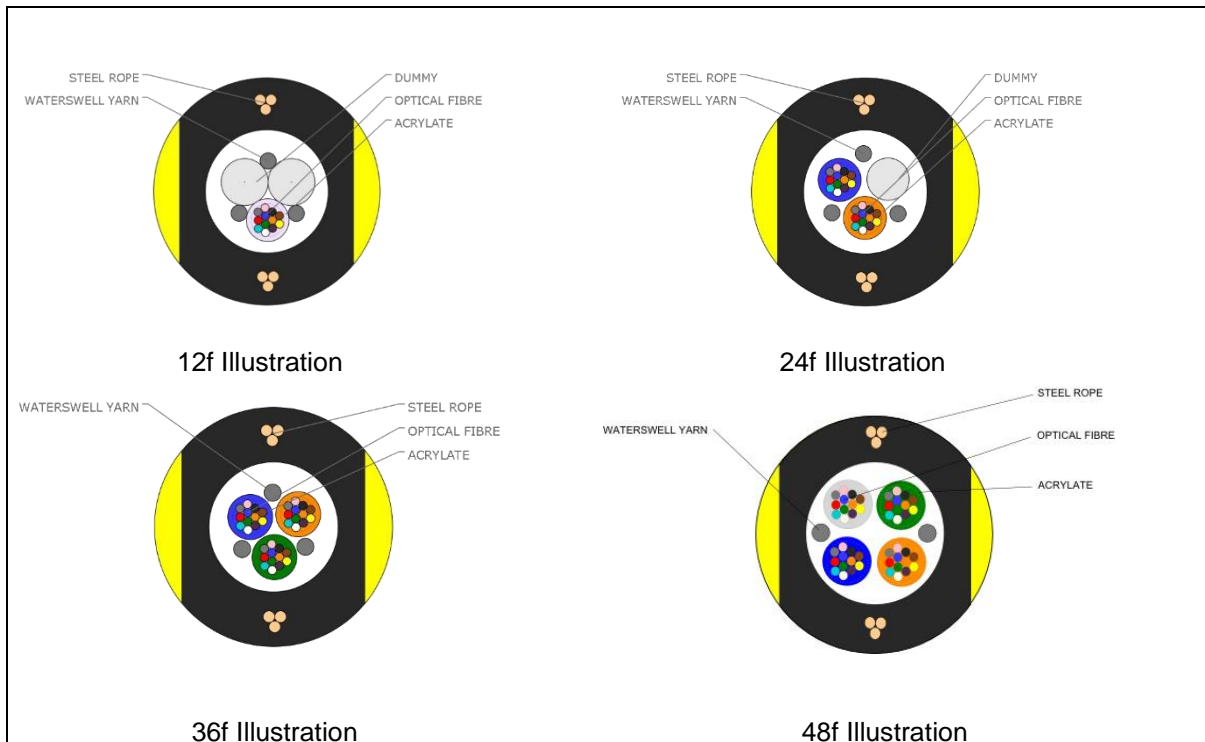
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## Mechanical/Electrical Testing

### Cable Break

The load to break of the cable shall be not less than 1350 Newton's and not more than 2000 Newton's

### High Voltage test

Product tested for suitability for use under 11kV power cables by testing to 15kV<sub>rms</sub>.

### Acceptance Criteria

The sample shall be deemed to have passed the test if it withstands 15kV for 5 minutes without breakdown. In the event of the sample withstanding 15 kV for 5 minutes, the test shall be continued for a further 5 minutes, to determine an actual failure point, if any, for the sample.

In the event of the sample not failing after the further 5 minutes testing, then it shall be quoted as >10 minutes.