



CENTRAL LOOSE TUBE

## Armoured Double Sheath

According to

**DW090**  
**DW170**

> IEC 11801 2<sup>nd</sup> Ed.

> EN 50173 2<sup>nd</sup> Ed.



1<sup>st</sup> ISSUE 2006

ARCHITECTS OF LIGHT

# OPTICAL

CENTRAL LOOSE TUBE

## Armoured Double Sheath

As a global manufacturer of telecom products, Prysmian offers the market an integrated set of components, systems, engineering and installations for turn-key projects in the field of Premises, leading the transition from Copper to Fibre Optic.

### Applications



Based on the armoured single sheath family, these **DOUBLE SHEATH** designs meet the most severe environmental requirements. Suitable for **Indoor/Outdoor** (DW090) or typically **Outdoor** (DW170) applications, when total **Rodent Resistance** is required, its corrugated Steel Tape embedded between the two sheaths works as a very good barrier against water.

Aimed at maximum flexibility, the FibreWave Line has been developed to contain all types of fibre for basic applications as well as up to the 10Gbit Ethernet, exceeding the requirements of the most common Structured Cabling International Standards - IEC 11801 2nd Ed. - EN 50173 2nd Ed.

**Afumex**<sup>®</sup>, the special LSOH Prysmian compound, is attractive where the generation of smoke or toxic emissions is potentially hazardous to people or equipment.

Flame retardant



IEC 60332-1  
EN 50265  
except  
DW170

Fire retardant



IEC 60332-3  
EN 50266  
except  
DW170

HCL



IEC 60754-2  
EN 50267

Smokes



IEC 61034  
EN 50268  
except  
DW170

Crush



≤ 2500 N/dm

Bending



up to 12 fo  
op: ≥ 180 mm  
inst: ≥ 240 mm  
up to 24 fo  
op: ≥ 235 mm  
inst: ≥ 310 mm

Temperature



op: -30 °C/+70 °C  
inst: -5 °C/+50 °C  
sto: -45 °C/+70 °C

Tensile



op: ≤ 750 N  
inst: ≤ 1500N

All dielectric



Outdoor



only DW170

Indoor/Outdoor



only DW090

Rodent



DW090-DW170



## CONSTRUCTION (NOMINAL VALUES)

### DW090

### DW170

Optical Fibre	for colour see table below			check the Fibre Sheet	
Central loose tube	diameter	up to 12 fo	mm	2,5	2,5
jelly filled	diameter	up to 24 fo	mm	4,0	4,0
Dielectric armouring				Aramid	Glass
Inner sheath	Afumex®	Grey RAL 7035			
Metallic armouring	corrugated steel tape			yes	yes
Outer Sheath	Afumex®			yes	/
	Polyethylene			/	yes
<b>Outer diameter &amp; weight</b>					
	<b>DW090</b>			<b>DW170</b>	
	up to 12 fo	up to 24 fo		up to 12 fo	up to 24 fo
mm	10,5	12,0		14,0	15,5
kg/km	140	185		200	220

## BUILD UP YOUR ORDERING CODE

fibre type	g	f
SMR 9/125	9	9
MM 50/125	5	50
MM 50/125 Hi Band	5H	Hi Band 50
MM 50/125 OM3	OM3	OM3 50
MM 62,5/125	6	62,5
FineLight™	F	FineLight™ 9

## ORDERING CODE

cable	code	std colour	std lenght	marking
Indoor Outdoor	DW090 - g - n	Green RAL 6018	2000 m	PRYSMIAN DeskWave DW090 g - n ww/yyyy INDOOR-OUTDOOR ARMoured DOUBLE SHEATH UNITUBE n f /125 LSOH metric M
Outdoor	DW170 - g - n	Black	2000 m	PRYSMIAN DeskWave DW170 g - n ww/yyyy OUTDOOR ARMoured DOUBLE SHEATH UNITUBE n f /125 metric M

ww: production week

yyyy: production year

n: number of fibres

## FIBER COLOUR CODE

1 red	7 black	13 orange + 1 ring	19 orange + 2 rings
2 green	8 pink	14 yellow + 1 ring	20 yellow + 2 rings
3 yellow	9 orange	15 red + 1 ring	21 red + 2 rings
4 brown	10 turquoise	16 white + 1 ring	22 white + 2 rings
5 blue	11 white	17 pink + 1 ring	23 pink + 2 rings
6 violet	12 grey	18 turquoise + 1 ring	24 turquoise + 2 rings

## About Us

Prysmian is a global market leader in optical cables, supplying a major part of the world's optical cable needs. With a strong heritage of highly advanced R&D, Prysmian is at the leading edge of the technology.

With a worldwide manufacturing presence in 12 countries and in 4 continents Prysmian's global experience and local manufacturing capacity is a significant force in the international marketplace, assuring continuity of supply and high level of service.

Prysmian's optical technology encompasses optical fibers, cables, connectivity, projects and services ensuring that not only the right cable but the right total optical communication system is matched to our customers' needs.

Prysmian offers a complete service from design planning, manufacture and installation through to technical support of commissioned cable networks. Planning and surveying are the cornerstone of our operation, with quality maintained through the expertise and dedication of all our staff working across the business to ISO 9001 and 14000 standards.

When a project is in Prysmian's hands, our customers can depend on a total quality service.

Specifications are subject to change without notice. Cable are designed and tested according to the main national and international specifications (IEC specifications).

dega design group