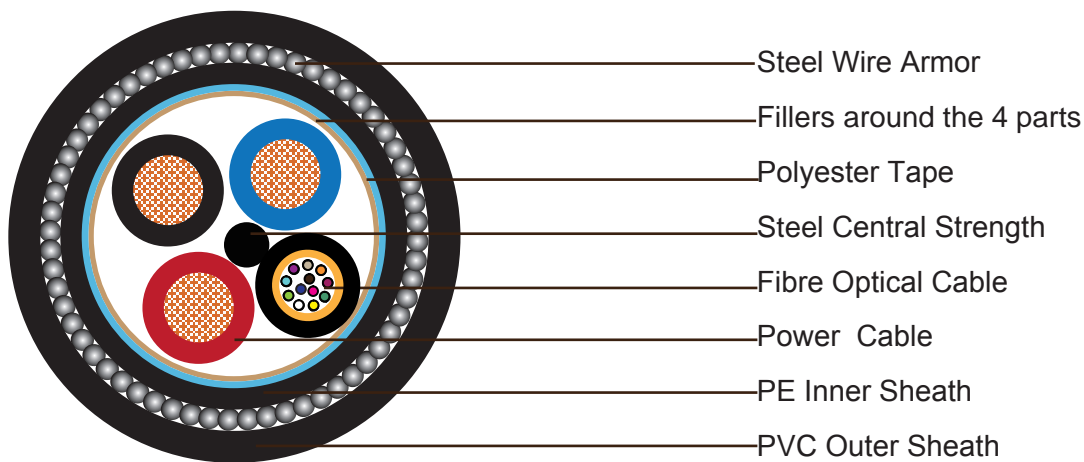




### 3x2.5 Power Cable + 12C Fiber Optic Cable SWA LSOH Sheathed Composite Cable

#### Construction:



#### 3x2.5mm<sup>2</sup> Power Cable

Conductor	7/0.67mm Stranded bare copper wire
Insulation	XLPE. Thickness is 0.7mm. Outer diameter 3.41mm

#### 12C Fiber Cable

No of fibers in loose tube	12 fibers
Loose tube	outer diameter: 2.2+/-0.2mm (Aramid yarn &PE Sheath would be used over the loose tube)

#### Element Assembly

Central Strength Member	Steel central strength member with PE/PVC coating if necessary
Fillers	PP fillers will be added around the 4 cable cores.
Wrapping Tape	Polyester tape is applied over cable core if necessary
Inner Jacket	PE, LSOH is optional, thickness is 1.0mm
Armor	Steel wire armour



<b>Sheath</b>	PE, LSOH is optional, thickness is 1.8mm, nominal outer diameter 16.2±2.0mm
<b>Sheath Color</b>	Black

## Optical Characteristics

Property	50/125 fibers	62.5/125 fibers
Attenuation @ 850 nm (dB/km)	≤ 3.0	≤ 3.2
Attenuation @ 1300 nm (dB/km)	≤ 1.0	≤ 1.2
Added Attenuation with Bending	≤ 0.5 dB (850 and 1300 nm) for 100 turns around a 75 mm mandrel	
Numerical Aperture	0.20 ± 0.02	0.275 ± 0.015
Bandwidth @ 850 nm	400 MHz*km	160 MHz*km
Bandwidth @ 1300 nm	800 MHz*km	500 MHz*km
Core diameter	50 ± 3 μm	62.5 ± 3 μm
Cladding diameter	125 ± 2 μm	
Core-Cladding offset	≤ 6%	
Cladding non-circularity	≤ 2%	
Core non-circularity	≤ 6%	
Coating diameter	245 ± 10 μm	
Coating / Cladding offset	12 μm	
Proof Test	≥ 0.69 GN/m <sup>2</sup> (100 kpsi)	

The fibers contain no splices.

## Mechanical Properties:

### Tensile load:

Operating: 3000N    Installation: 5000N

### Bending radius:

Operating: 15×OD    Installation: 28×OD

### Compressive load:

Short term: 5500N    Long term: 3500N