OAC Networks
Optical Advanced Communication

옥외용 다심 OJC(1) - Wire 내장형

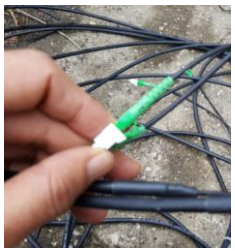
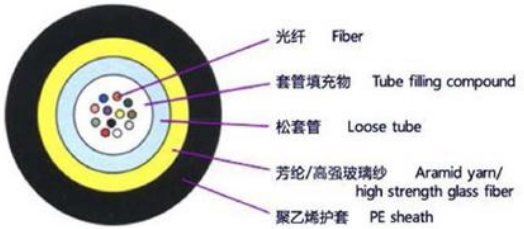
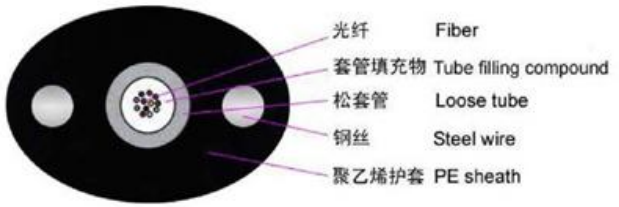
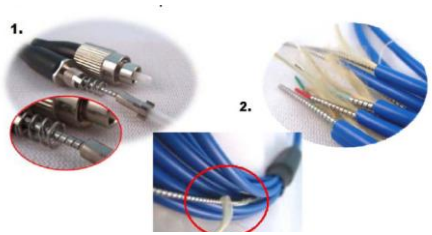
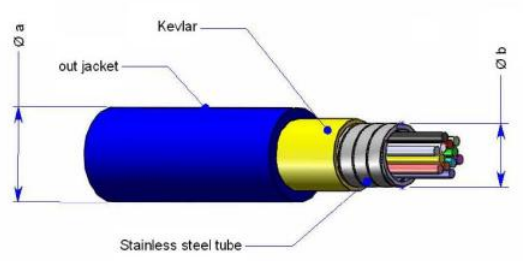
※ 옥외용 다심 코어 OJC 개요

✓옥외용 OJC 분류 ▶Wire 내장형(In cable) or Stainless Steel 피복형(steel Tube)
✓광코어 분기▶ 2~12c, 24c, 36c
✓광커넥터 : LC, SC, FC
✓Fiber 종류 : SMF or MMF
✓발광기능 : 광선로 종단 추적 확인을 위한 Visible 기능(Option)
✓방수캡 (Water Proof Cap)

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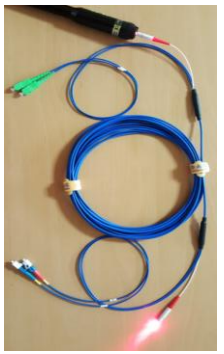
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개요
▶ 옥외용 다심 광점퍼코드(OJC) Cable 분류 및 비교

항목	Wire 내장형 (Steel or Glass fiber wire in optical cable)	Stainless Steel 피복형 (Stainless steel armored tube jacket)
구조 및 형상	  	 

Core 수	Wire 내장형 : 2~12,
Tension	2~4core : steel 피복형이 우수, 12c~ 다심 에서는 600N~1500N으로 유사
외경	Steel 피복형 외경이 작아 관로/공간확보 측면에서 우수
휘어짐	Steel 피복형이 휘어짐이 좋아 굴곡 작업우수
단가	wire 형이 Steel 피복형보가 단가 (낮음)우수
사용 용도	광케이블의 외상이나 쥐/동물의 손상이 피복 예상 되는 구간은 steel 피복형이 유리 외상의 위험이 적은 경우는 wire 형이 유리함.
발광기능 (Visible)	➔광케이블 내에 내경이 큰 FIBER 추가 구성, 광선로 추적을 위한 양측 종단 발광 가능함.(우측 사진 참조) ➔옥외용 cable의 경우 cable jacket 의 손상을 위해 피복에서의 발광(Visible)은 추천하지 않음.

옥외용 OJC 발광



※ 옥외용 OJC 는 필요한 core수,길이(Cable,분기),설치 환경, 방수캡,단가 고려한 Cable 선택이 필요함.

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FTTH Indoor Cable OJC

▶SMF 2core(O.D 2*3mm), FRP strength, LSZH Jacket, Tension 30N

FTTH Indoor Cable



Applications:

The optical fiber unit is positioned in the centre. Two parallel FiberReinforced Plastics (FRP) are placed at the two sides. Then the cable is completed with a black or color LSZH sheath.

Features:

- Special low-bend-sensitivity fiber provides high bandwidth and excellent communication transmission property;
- Two parallel FRP strength members ensure good performance of crush resistance to protect the fiber;
- Simple structure, light weight and high practicability;
- Novel flute design, easily strip and splice, simplify the installation and maintenance;
- Low smoke, zero halogen and flame retardant sheath.

Fiber	Type	G657A
	No.	1 or 2 cores
FRP		0.5mm*2
Jacket	Material	LSZH
Cable Diameter (mm)		(2.0±0.2mm)*(3.0±0.2mm)
Cable weight		8.0kg/km
Max. Tension (N)	Short-term	30
	Long-term	60
Max. Crushing Resistance ($N/100mm^2$)		1000
Temperature range(℃)		-20℃-- +60℃
Min. Bending Radius (mm)	Dynamic	30
	Static	15

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FTTH Drop Cable OJC

▶SMF 2core(O.D 2*5mm), 1 Steel Wire, LSZH Jacket, Tension 60N

FTTH Drop Cable



Applications:

The optical fiber unit is positioned in the centre. Two parallel Fiber Reinforced Plastics (FRP) are placed at the two sides. A Steel wire as the additional strength member is also applied. Then the cable is completed with a black or color LSZH sheath.

Features:

- Special low-bend-sensitivity fiber provides high bandwidth and excellent communication transmission property;
- Two parallel FRP strength members ensure good performance of crush resistance to protect the fiber;
- Single steel wire or massagers as the additional strength member ensures good performance of tensile strength;
- Simple structure, light weight and high practicability;
- Novel flute design, easily strip and splice, simplify the installation and maintenance;
- Low smoke, zero halogen and flame retardant sheath.

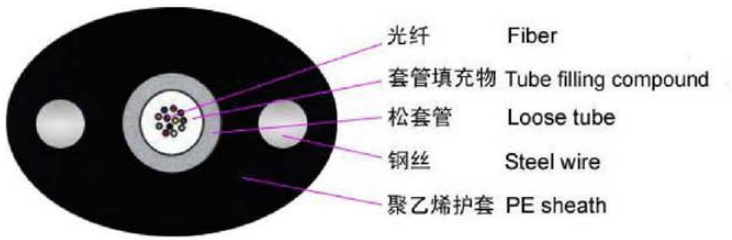
Fiber	Type	G657A
	No.	1 or 2 cores
FRP		0.5mm*2
Steel wire		1.0mm
Jacket	Material	LSZH
Cable Diameter (mm)		(2.0±0.2mm)*(5.0±0.2mm)
Cable weight		20.0kg/km
Max. Tension (N)	Short-term	60
	Long-term	120
Max. Crushing Resistance ($N/100mm^2$)		1000
Temperature range(℃)		-20℃-- +60℃
Min. Bending Radius (mm)	Dynamic	30
	Static	15

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GYXTPY Cable OJC

▶SMF 2~12core(O.D 4*5mm), 2 Steel Wire, PE Jacket, Tension 300N

GYXTPY





1. Fiber(Fiber characteristic)

   Cladding diameter: 125.0±0.1

   Fiber characteristics: Diameter: 242±7 um

   UV color fiber: Standard chromatogram:

Blue,Orange,Green,Brown,Gray/Slate,White,Red,Black,Yellow,Violet,Rose/Pink,Aqua

2. Tube filling compound(Gel)
3. PBT loose tube of 2-12 core

   Tube thickness: 0.3±0.05mm Diameter: 2.5±0.1 um

4. Phosphoric steel wire Diameter: 0.7mm*2
5. Black PE out jacket

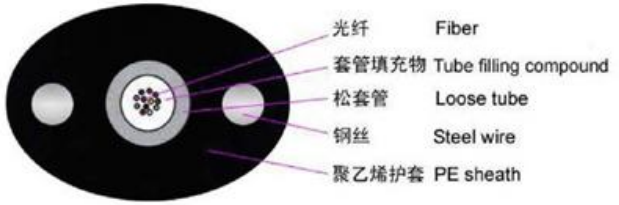
   Diameter: (4.0 ±0.20mm)* (5.0 ±0.20mm)

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GYXTPY Cable OJC

▶SMF 2~12core(O.D 4*5mm), 2 Steel Wire, PE Jacket, Tension 300N

GYXTPY



		2-12core
Nominal weight(g/m)		40
Max. Tension (N)	Short-term	300
Max. Tension (N)	Long-term	600
Max. Crushing Resistance (N/100mm^2)		500
Temperature range(℃)		-40℃-- +70℃
Min. Bending Radius(mm)	Install	20D
Min. Bending Radius(mm)	Static	10D

✓ *Wire형 옥외용 OJC*

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JET Cable OJC

▶SMF 2~12core(O.D 6.0mm), Glass Wire, PE Jacket, Tension 1000N

JET





1. Fiber(Fiber characteristic)

   Cladding diameter: 125.0±0.1

   Fiber characteristics: Diameter: 242±7 um

   UV color fiber: Standard chromatogram:

Blue,Orange,Green,Brown,Gray/Slate,White,Red,Black,Yellow,Violet,Rose/
Pink,Aqua

2. Tube filling compound (Gel)
3. PBT loose tube of 2-12 core

   Tube thickness: 0.3±0.05mm Diameter: 2.5±0.1 um

4. Phosphoric steel wire Diameter: 0.7mm*2
5. Aramid Yarn

   Thickness *Widen: 0.25*12mm

6. Black PE out jacket

   Jacket thickness:2.0 ±0.20mm

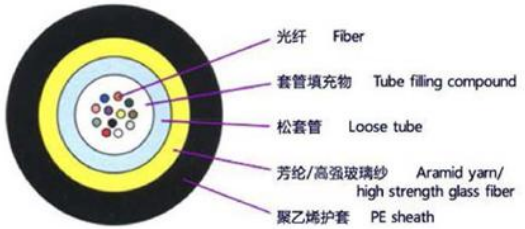
   Diameter: 6.0 ±0.20mm

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JET Cable OJC

▶SMF 2~12core(O.D 6.0mm), Glass fiber Wire, PE Jacket, Tension 1000N

JET



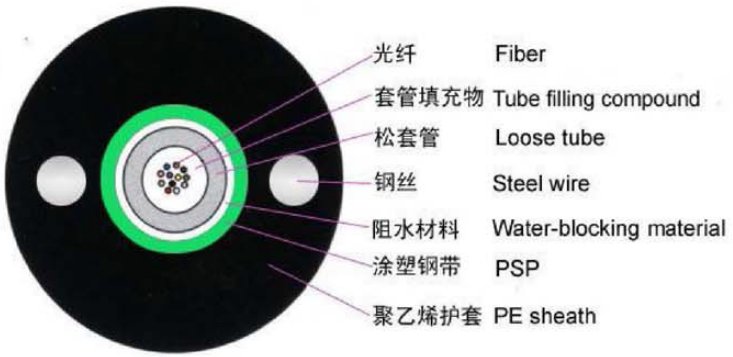
		2-12core
Nominal weight(g/m)		35
Max. Tension (N)	Short-term	1000
Max. Tension (N)	Long-term	300
Max. Crushing Resistance (N/100mm^2)		1000
Temperature range(℃)		-40℃-- +70℃
Min. Bending Radius(mm)	Install	20D
Min. Bending Radius(mm)	Static	10D

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GYXTW Cable OJC

▶SMF 2~12core(O.D 6.0mm), 2 Steel Wire, Water Proof, PE Jacket, Tension 1500N

GYXTW





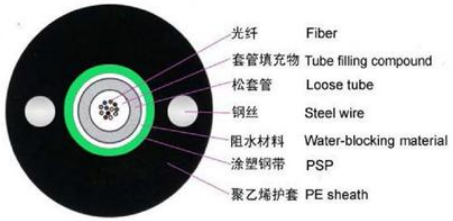
1. Fiber(Fiber characteristic)
   Cladding diameter: 125.0±0.1
   Fiber characteristics: Diameter: 242±7 um
   UV color fiber: Standard chromatogram:
   Blue,Orange,Green,Brown,Gray/Slate,White,Red,Black,Yellow,Violet,Rose/Pink,Aqua
2. Tube filling compound(Gel)
3. PBT loose tube of 2-12 core
   Tube thickness: 0.3±0.05mm Diameter: 2.5±0.1 um
4. Phosphoric steel wire Diameter: 0.7mm*2
5. Longitudinal water-proof tape
   Thickness *Widen: 0.25*12mm
6. Longitudinal corrugated steel tape laminated with polyethylene on both sides
   Corrugated steel Thickness : 0.4 ±0.015
   Steel thickness: 0.15±0.015
7. Black PE out jacket
   Diameter: 8.8 ±0.20mm / 8.3 ±0.20mm / 8.0 ±0.20mm

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GYXTW Cable OJC

▶SMF 2~12core(O.D 6.0mm), 2 Steel Wire, Water Proof, PE Jacket, Tension 1500N

GYXTW



		2-12core
Nominal weight(g/m)		70
Max. Tension (N)	Short-term	1500
Max. Tension (N)	Long-term	600
Max. Crushing Resistance (N/100mm^2)		1000
Temperature range(℃)		-40℃-- +70℃
Min. Bending Radius(mm)	Install	20D
Min. Bending Radius(mm)	Static	10D

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