# Ordering Options

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## Simplex/Duplex Cord

**Simplex:** CCL-FC-SA-B-C-D  
**Duplex:** CCL-FC-DA-B-C-D-E

A: Cord Diameter

20=2.0mm; 25=2.5mm; 28=2.8mm; 30=3.0mm

B: Fiber Type

0=Fiber and copper conductors in cable  
4=50/125 multi-mode fiber (OM3) per ITU-T G.651  
5=50/125 multi-mode fiber (OM2) per ITU-T G.651  
6=62.5/125 multi-mode fiber (OM1) per ITU-T G.651  
7=NZDS SM fiber per ITU-T G.656.  
8=NZDS SM fiber per ITU-T G.655.  
9=Standard SM fiber per ITU-T G.652.D

C: Tight Buffer Type:

VT=Standard tight buffer (Default), YT=Tactical grade,  
CG=Semi-tight buffer, jelly filled, CD-D=Semi-tight buffer, dry

D: Jacket Type

2Y=PVC, H=LSZH, ONR-OFNR PVC; ONP-OFNP FEP; Yu-FRPVC

E: Cable Shape

FT= Flat Cord; RD= Round Cord; ZIP= Zip Cord
**Tight Buffered Cable**

**Distribution**: CCL-FC-MTA-B-C-D-E-F-G-H-I-J-K-L  
**Breakout**: CCL-FC-BTA-B-C-D-E-F-G-H-I-J-K-L

**A: Distribution**
- Sub Unit Diameter
  - A=0.9mm (up to 12 fibers)
  - B=3.6mm (12-36 fibers)
  - C=4.2mm (24-72 fibers)

**Breakout Mini Cable Jacket Diameter**
- A- 1.8mm; B-2.0mm ; C-2.5mm; D-2.8mm; E-3.0mm

**B: Fiber Type**
- 0=Fiber and copper conductors in cable
- 4=50/125 multi-mode fiber(OM3)
- 5=50/125 multi-mode fiber(OM2)
- 6=50/125 multi-mode fiber(OM1)
- 7=NZDS SM fiber per G.656.
- 8=NZDS SM fiber per G.655.
- 9=Standard SM fiber per G.652.D

**C: No. of fibers**
- 4 to 72

**D: Sub-unit Jacket Options**
- 0=No sub-unit (for up to 12 fibers), Y=PVC, H=LSZH

**E: Central member Options**
- Blank=No central member; A=Aramid yarn, F=Fiber Reinforced Plastic (FRP)

**F: Inner Jacket Options**
- 2Y=PE, Y=PVC, H=LSZH; ONR-OFNR PVC; ONP-OFNP FEP; Yu-FRPVC

**G: Armour options**
- Blank=No armour, T=Corrugated steel tape armour, W=Steel wire armour
- B=Bronze armour, D=Fiber glass armour; TW= Steel tape + Steel wire armour

**H: Outer Jacket Options**
- Y=PVC, H=LSZH; ONR-OFNR PVC; ONP-OFNP FEP; Yu-FRPVC

**I: Water-Blocking Options for cable core**
- X=No water-blocking; J= Water blocking gel in tubes;
  - JD=Water-blocking gel in tubes + dry water blocking in cable core interstices;
  - JJ= Water-blocking gel in tubes and cable core interstices.

**J: Water-Blocking Options for cables with more than one jacket**
- X=No water-blocking, J= Water blocking gel between jackets;
  - D=Dry water-blocking between cable jackets;

**K: Tight Buffer Type**
- VT=Standard tight buffer, YT=Tactical grade, CG=Semi-tight buffer, gel-jelly,
  - CD=Semi-tight buffer, dry

**L: Strength Member Options**
- A=Aramid yarn, AG=Aramid yarn and fiberglass yarn, G=Fiberglass yarn
### Central Loose Tube Cable

**CCL-FC-CLA-B-C-D-E-F-G-H-I-J**

- **A**: Loose tube diameter
  - A=2.1mm, B=2.5mm
- **B**: Fiber type
  - 0=Fiber and copper conductors in cable
  - 4=50/125 multi-mode fiber (OM3) per ITU-T G.651
  - 5=50/125 multi-mode fiber (OM2) per ITU-T G.651
  - 6=62.5/125 multi-mode fiber (OM1) per ITU-T G.651
  - 7=NZDS SM fiber per ITU-T G.656.
  - 8=NZDS SM fiber per ITU-T G.655.
  - 9=Standard SM fiber per ITU-T G.652.D
  - Ended with R=Ribbon type fiber (Ex: 9R= SM fiber per G.652.D ribbon type)
- **C**: No. of fibers:
  - 1 to 24
- **D**: Inner jacket options
  - 2Y=PE, Y=PVC, H=LSZH
- **E**: Armour options
  - Blank=No armour, T=Corrugated steel tape armour, W=Steel wire armour
  - B=Bronze armour, D=Fiber glass armour; TW= Steel tape + Steel wire armour
- **F**: Jacket material options
  - 2Y=PE, Y=PVC, H=LSZH, 11Y=PU, A=Aluminium moisture barrier,
  - T=Anti-termite protection
- **G**: Water-blocking options for cable core
  - X=No water-blocking; J= Water blocking gel in tubes;
  - JD=Water-blocking gel in tubes + dry water blocking in cable core interstices;
  - JJ= Water-blocking gel in tubes and cable core interstices.
- **H**: Water-blocking options for cables with more than one jacket
  - X=No water-blocking, J= Water blocking gel between jackets;
  - D=Dry water-blocking between cable jackets;
- **I**: Strength member options
  - A=Aramid yarn, AG=Aramid yarn and fiberglass yarn, G=Fiberglass yarn
- **J**: General options
  - SS=Fig-8 self-supporting
  - UW=Under Water
Multi Loose Tube Cable

CCL-FC-MLA-B-C×D-E-F-G-H×I-J-K-L

A: Loose tube diameter
   B=2.1mm, C=2.5mm, D=2.8mm, E=3.0mm, F=3.2mm

B: Fiber type
   0=Fiber and copper conductors in cable
   4=50/125 multi-mode fiber (OM3) per ITU-T G.651
   5=50/125 multi-mode fiber (OM2) per ITU-T G.651
   6=62.5/125 multi-mode fiber (OM1) per ITU-T G.651
   7=NZDS SM fiber per ITU-T G.656.
   8=NZDS SM fiber per ITU-T G.655.
   9=Standard SM fiber per ITU-T G.652.D
   Ended with R=Ribbon type fiber ( Ex: 9R= SM fiber per G.652.D ribbon type )

C: No. of tubes:
   1 to 36

D: No. of fibers per tubes:
   2 to 12

E: Central member
   S=Solid steel, SR=Stranded steel, F=Fiber Reinforced Plastic (FRP)

F: Inner jacket options
   2Y=PE, Y=PVC, H=LSZH

G: Armour options
   Blank=No armour, T=Corrugated steel tape armour, W=Steel wire armour
   B=Bronze armour, D=Fiber glass armour; TW= Steel tape + Steel wire armour

H: Jacket material options
   2Y=PE, Y=PVC, H=LSZH,
   11Y=PU, A=Aluminium moisture barrier, T=Anti-termite protection

I: Water-blocking options for cable core
   X=No water-blocking; J= Water blocking gel in tubes;
   JD=Water-blocking gel in tubes + dry water blocking in cable core interstices;
   JJ= Water-blocking gel in tubes + dry water blocking in cable core interstices.

J: Water-blocking options for cables with more than one jacket
   X=No water-blocking, J= Water blocking gel between jackets;
   D=Dry water-blocking between cable jackets;

K: Strength member options
   A=Aramid yarn, AG=Aramid yarn and fiberglass yarn, G=Fiberlass yarn

L: General options
   SS=Fig-8 self-supporting
   UW=Under Water
**ADSS Multi Loose Tube Cable**

**CCL-FC-MLA-B-C-D-E-F-G-H-I-J-K-L-M- ADSS**

A: Loose tube diameter
   - B=2.1mm, C=2.5mm, D=2.8mm,
   - E=3.0mm, F=3.2mm

B: Fiber type
   - 0=Fiber and copper conductors in cable
   - 4=50/125 multi-mode fiber(OM3)
   - 5=50/125 multi-mode fiber(OM2)
   - 6=50/125 multi-mode fiber(OM1)
   - 7=NZDS SM fiber per G.656.
   - 8=NZDS SM fiber per G.655.
   - 9=Standard SM fiber per G.652.D

   Ended with R=Ribbon type fiber (Ex: 9R=SM fiber per G.652.D ribbon type)

C: No. of tubes:
   - 01 to 36

D: No. of fibers per tubes:
   - 02 to 12

E: Central member
   - S=Solid steel, SR=Stranded steel, F=Dielectric(FRP)

F: Inner jacket options
   - 2Y=PE, Y=PVC, H=LSZH

G: Armour options
   - T=Corrugated steel tape armour, B=Bronze, W=Steel wire Armour, WB=Steel Wire Braid

H: Jacket material options
   - 2Y=PE, AT=Anti-tracking

I: Water-blocking options for cable core
   - X=No water-blocking; J=Water blocking gel in tubes;
   - JD=Water-blocking gel in tubes + dry water blocking in cable core interstices;
   - JJ=Water-blocking gel in tubes and cable core interstices.

J: Water-blocking options for cables with more than one jacket
   - X=No water-blocking, J=Water blocking gel between jackets;

K: Strength member options
   - A=Aramid yarn, AG=Aramid yarn and glass yarn, G=Glass yarn

L: Span Length

M: Voltage Rating
**OPGW Type Cable**

CCL-FC-A-B-C-D-E-OPGW

A: Fiber type
- 0 = Fiber and copper conductors in cable
- 4 = 50/125 multi-mode fiber (OM3)
- 5 = 50/125 multi-mode fiber (OM2)
- 6 = 50/125 multi-mode fiber (OM1)
- 7 = NZDS SM fiber per G.656.
- 8 = NZDS SM fiber per G.655.
- 9 = Standard SM fiber per G.652.D

B: No. of steel tubes:
- 01 to 3

C: No. of fibers per tubes:
- 02 to 12

D: Cross Sectional Area
- 35 = 35mm²
- 50 = 50mm²
- 70 = 70mm²
- 90 = 90mm²
- 130 = 130mm²

E: Rated Voltage
- 66 = 66KV
- 115 = 115kV
- 150 = 150kV
- 250 = 250kV
- 275 = 275kV
- 380 = 380kV
- 500 = 500kV