

OSP Copper Core Lay-up Diagrams

Mirror Image

Lay-up diagrams provide a cross-sectional view of the core construction. Where the core has 25 pairs or less, the individual pairs are represented. Cores between 25 and 200 pairs are constructed using a combination of unit and group assemblies with color-coded binders to create a cylindrical core. Cores larger than 200 pairs are constructed using 25-pair groups bound with color-coded binders to create unique 50- and 100-pair Super Units (SU).

There are two common core configurations for copper cables 1,200-pair and larger and constructed with 100-pair super-units. This document addresses one type, "Mirror Image" binder color coding based on Telcordia (Bell) Standards. This is used by regional Bell operating companies and their descendants. The second type is referred to as "Full Count" color coding and is traditionally used by the Independent Telco (non-Bell) market. For more information on "Full Count" binder color-coding, please see the **OSP Copper Core Lay-up Diagrams - Full Count** Technical Guideline.

Helpful Information

1. A green binder identifies the first unit of each layer in a Mirror Image core. Locate the green binder of the layer and begin counting from that point.

For example, a 1,200-pair core consists of two layers. The center layer (layer 1) contains Super Units 1, 2 and 3. Unit 1 is identified by a Green/Black binder. The outer layer contains Super Units 4, 5, 6, 7, 8, 9, 10, 11 and 12. Unit 4 is the first unit of the outer layer and is identified by a Green/Yellow binder.

2. Mirror Image cores may contain spare pairs. Information on spare pairs is included for informational purposes only.

COLOR KEY

I = Blue

O = Orange

G = Green

BR = Brown

S = Slate

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R = Red

BK = Black

/ = <mark>Yellow</mark> / = Violet

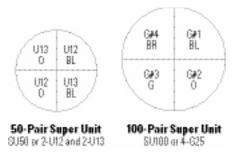
SPARE PAIR COLOR CODES

- 1. Red/White
- 2 Black/White
- 3. Yellow/White
- 4. Violet/White
- 5. Black/Red
- 6. Yellow/Red
- 7. Violet/Red
- 8. Yellow/Black
- Violet/Black
 Viloet/Yellow
- 11. Orange/Blue
- 12. Green/Blue
- 13. Brown/Blue

Unit Assemblies (U)

Pt 12 Pt 4 Pt 15 Pt 16 Pt 25 Pt 16 Pt 17 Pt 10 Pt 2 Pt 19 Pt 20 Pt 19 Pt

Super Unit Assemblies (SU)

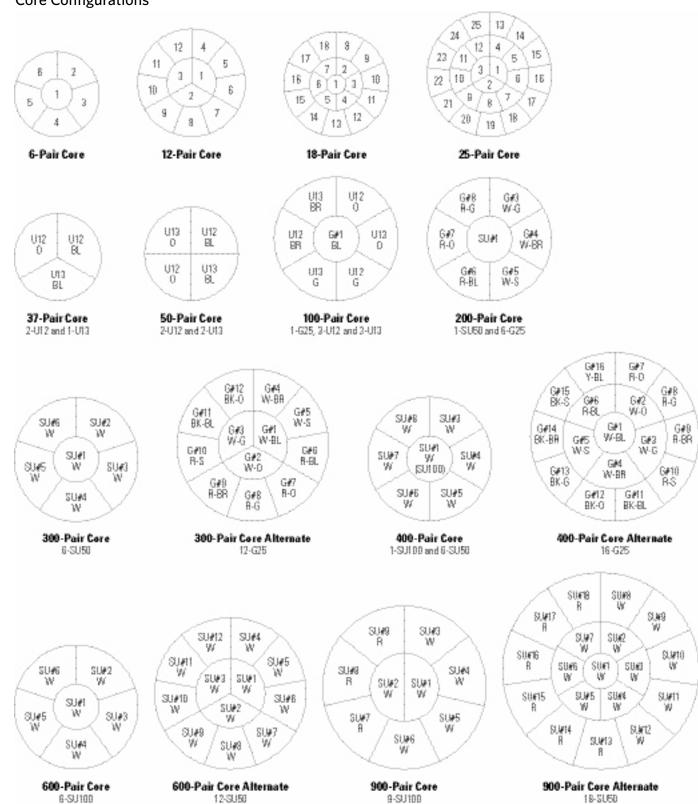


Group Assemblies (G)





Core Configurations





Core Configurations continued...

