

10GBASE-T - The Case for STP

Competitive Assessment

Shielded:

Nexans

Brand Rex*

R&M

Tyco*

3M*

Panduit*

Legrand*

Molex

UTP:

Systimax

Krone

Tyco (press release but no details)

Panduit*

*have channel certificates

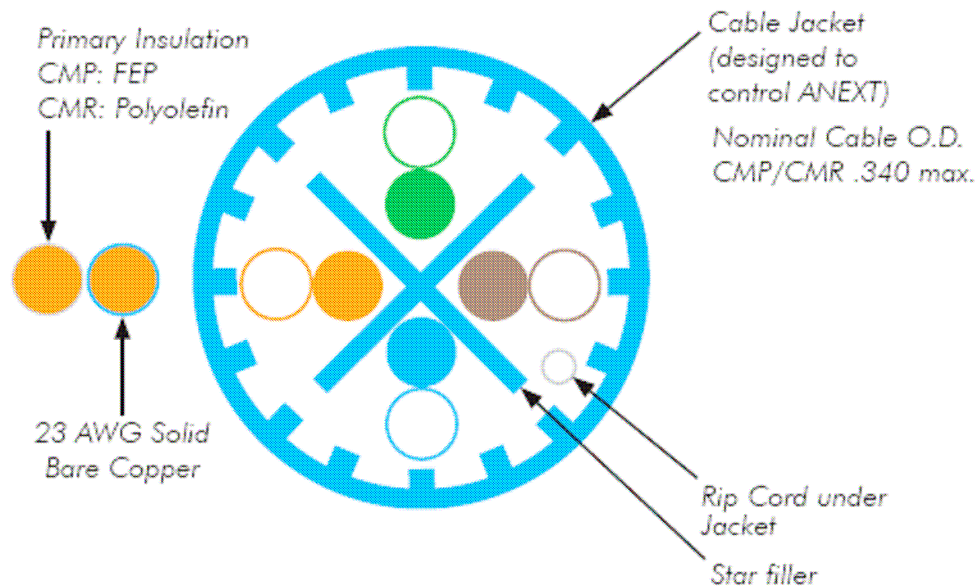
STP vs UTP

- Screened solutions pass the alien crosstalk requirements with good headroom so the customer can be confident that installed systems will be compliant.
- Cost - 10G UTP is not necessarily cheaper than a screened system - the technology required to eliminate alien AXT in UTP may be comparable with cost of screening.
- 10G UTP cable may be physically larger or a different shape than STP so will require more containment. Screened containment may be required with UTP
- Ease of Installation - Screened 10G systems may be easier to install than 10G UTP solutions.
- No AXT field testing needed with screened cabling – AXT effects are an unknown with UTP.

STP vs UTP – Post Installation

- Freedom for the customer to make moves and changes with screened solution—moving a TO or a patchcord will not make a difference to the AXT.
- No need to worry about noise generated after installation when the system is made live.
- Adds up to a lower risk choice.

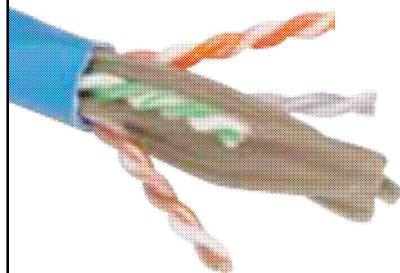
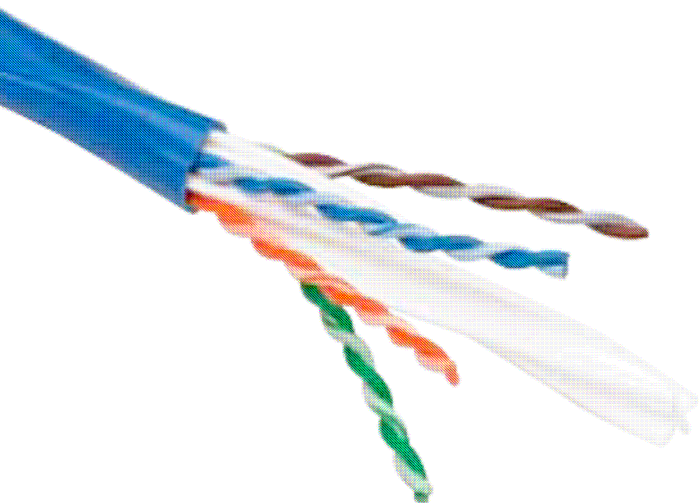
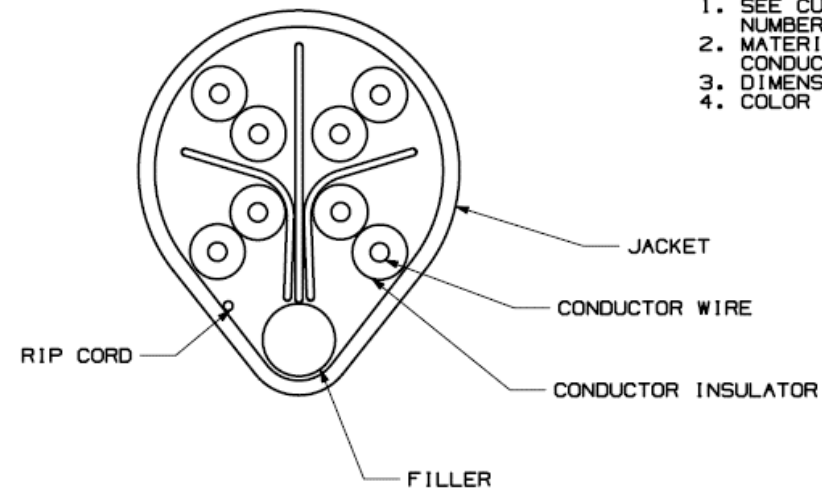
UTP 10G Cable



CATEGORY 6 10GIG CABLE

PUR6X04
PUL6X04•

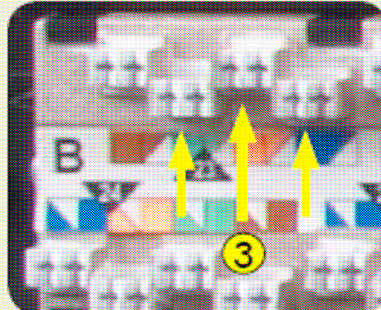
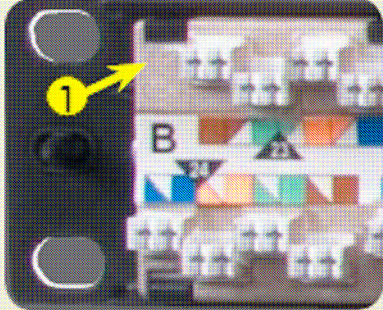
- NOTES:
1. SEE CUR NUMBER
 2. MATERIAL CONDUCT
 3. DIMENSION
 4. COLOR C



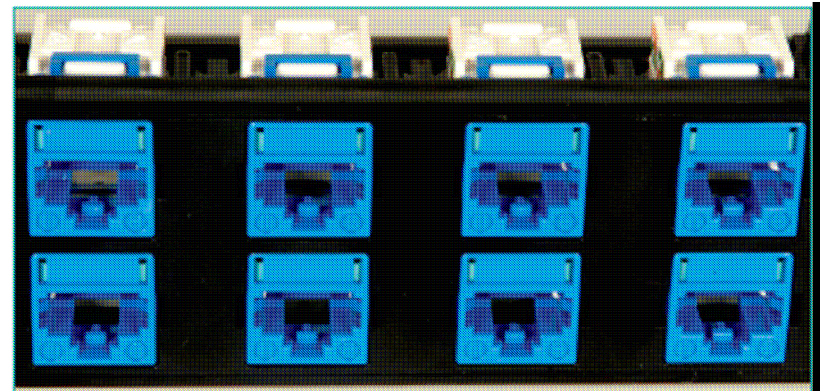
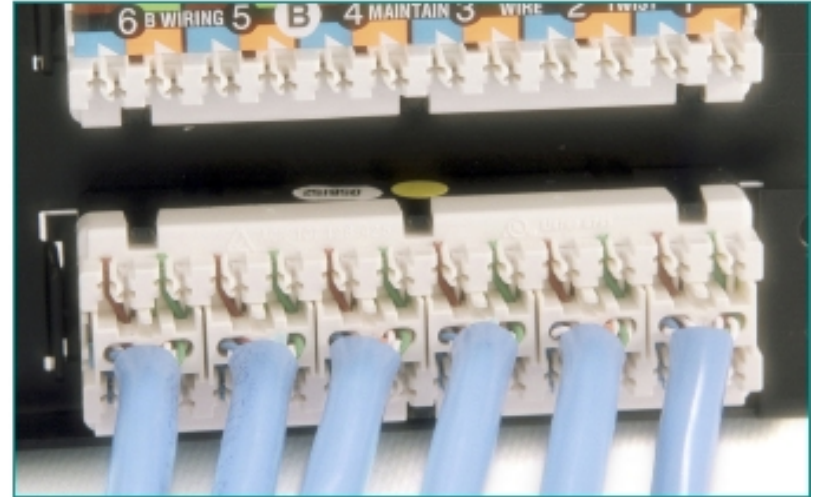
Patch Panels

Hubbell Meets the 10GbE Copper Challenge . . . True ANEXT Component Compliant Connectivity.

1. **Shield:** rear of adapter coated conductively to eliminate ANEXT.
3. **Stagger:** tower formation offset pair-to-pair and port-to-port.



2. **Separate:** distance between upper and lower IDCs maximized to reduce ANEXT, also helps with termination.



Jacks

