

Enhanced (xDSL) Transport Cable and Wire Products



With increased deployment of ADSL2+, VDSL2 and IPTV broadband technology, service providers are utilizing optical fiber cables from the central office out to the Remote Terminal (RT) cabinet, and then switching to traditional existing copper plant from the remote terminal cabinet to the premises. Scenes like the picture above are common in our Outside Plant (OSP) environment today.

Several new cable and wire products are now being deployed within and around the remote terminal cabinet to enhance this leading edge technology. Specially designed copper cable and wire products are installed on the launch circuits within these cabinets, thereby improving broadband signals from the RT to the premises. Service providers have verified that these enhancements offer significant improvements and higher quality broadband service at the premises.

A brief description for each product and its specific application follows.

Cables Within the Remote Terminal Cabinet

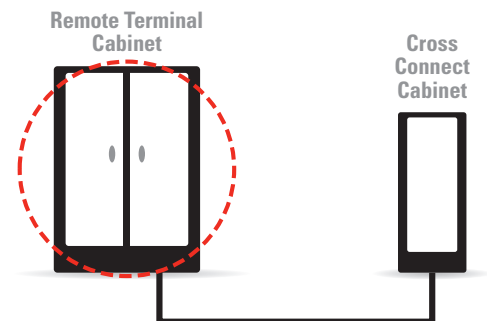
Within the remote terminal, a 25-pair tin copper Category 5e shielded cable is utilized between the optical equipment and the VDSL equipment to launch the broadband signal. These cables are generally pre-connectorized and pre-installed in the remote terminal cabinet at the point of manufacturing.

Three jacket color options are available:



25-Pair Category 5e Shielded CMR			
Part Number	Pair Count	Jacket Color	Package
55-779-19	25	Green	5,000' Reel
55-789-19	25	Gray	5,000' Reel
55-799-19	25	Blue	5,000' Reel

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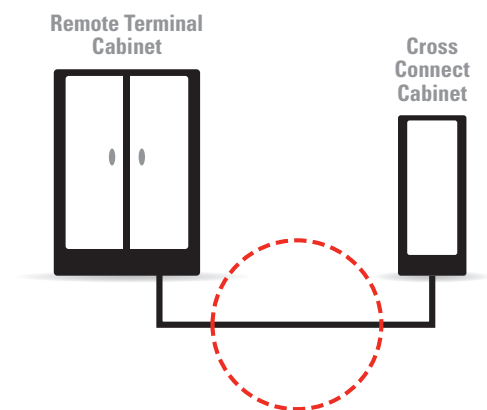
Cables Between the Remote Terminal and its Associated Cross Connect Cabinet

Between the RT and cross connect cabinets, a newly designed Tight Twist (TT) 200-Pair ANMW OSP cable now connects the RT to its associated cross connect cabinet. This TT cable is utilized as a transmission launch cable for 192 circuits over to the cross connect cabinet.



Tight Twist (TT) 200-Pair ANMW			
Part Number	Pair Count	Jacket Color	Package
07-024-74	200	Black	Cut to Length

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Cable and Wire Products Within the Cross Connect Cabinet

The tight twisted 200-pair ANMW OSP cable is terminated within the cross connect cabinet, connecting to a tight twisted core cable. The Tight Twisted Core Cable extends the circuit up to the back side of the cross connect blocks. Cross connect block manufacturers pre-terminate their blocks and preinstall the blocks into their cross connect cabinets at the point of manufacturing. These core cables are available in three sizes and are designed for this application.



Non-Jacketed Tight Twist Cable Core		
Part Number	Pair Count	Package
11-003-53	25	5,000' Reel
11-003-45	50	5,000' Reel
11-003-46	100	5,000' Reel

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On the front side of the cross connect cabinet, circuits are cross connected with tight twisted (Category 5 "like") cross connect wire available in several color combinations.



Cross-Connect Category 5 Wire XWC			
Part Number	Pair Count x AWG	Wire Color	Package
02-011-23	1 x 24	White/Blue	1,000' Spool
02-050-23	1 x 24	White/Orange	1,000' Spool
02-010-23	1 x 24	White/Green	1,000' Spool
02-006-23	1 x 24	White/Red	1,000' Spool
02-031-23	1 x 24	Yellow/Red	1,000' Spool
02-032-23	1 x 24	Violet/Blue	1,000' Spool

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Conclusion

These products as a group are designed for terminating OSP networks to digital transmission equipment at the service providers remote terminal equipment location. These products offer TIA (Category 5e "like") performance to support Digital Subscriber Line (xDSL) technologies. The goal of improving broadband signals from the RT to the premise is achieved with these enhanced products. All of these products collectively make an excellent choice for terminating broadband equipment for deployment of digital voice, video, and data.

