

# Coaxial Cables Quick Reference Guide

CommScope started supplying coaxial cables at the birth of the CATV industry over 40 years ago. Since then, our cables have become the industry standard. Why? Because of design and construction techniques that produce a quality cable with excellent performance characteristics, at the right price. With billions of feet of coaxial cables deployed, CommScope is a trusted name.

For hardline trunk and distribution applications, P3® and QR® cables are the standard. Both surpass industry standards for DOCSIS 3.1 extended frequency testing to 1218 MHz.

For customer drop applications, XpressPrep® cables are the standard.

All are 75 Ohm coaxial cables.

## P3® - Traditional Reliability

- A hardline, trunk/distribution cable
- Polyethylene dielectric features closed cell gas expanded foaming technology, with an impressive signal propagation at 87% of the speed of light
- Advanced Coring Technology (ACT®) greatly reduces the time needed to core, prep, and connectorize the cable

## QR® - Optimal Design & Construction

- A hardline, trunk/distribution cable
- The flexible alternative
- Superior performance characteristics, in a smaller cable
- Advanced Coring Technology (ACT®) greatly reduces the time needed to core, prep, and connectorize the cable

## Drop - XpressPrep® - Proven in the Field

- Unique foil design interacts with the 77 percent braid constructions to prevent stress cracking of the foil layers once the cables are exposed to the environment
- Braid provides superior protection from low frequencies, keeps attenuation low and produces a solid base onto which connectors can grip
- Inner and Outer shielding foils are permanently bonded to the dielectric and inner jacket, making connectorization both faster and more consistent
- XPRESSPREP cables exceed SCTE's 10,000 cycles shielding effectiveness requirements even when flexed beyond 30,000 cycles.



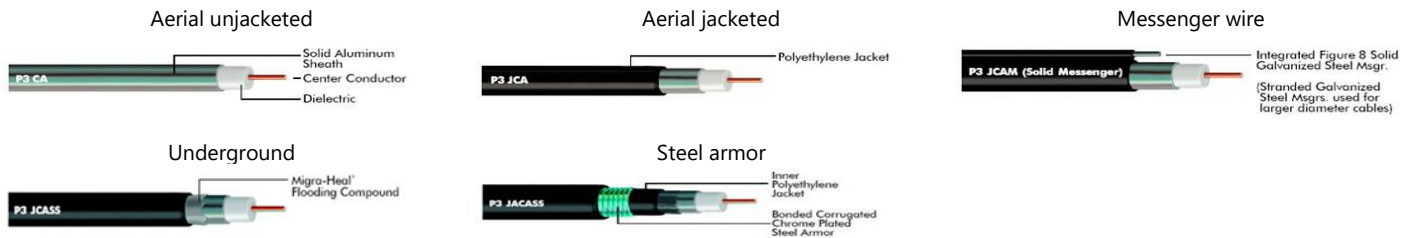
CommScope Cable Plant  
Catawba, North Carolina

# P3® coaxial cables

## Specifications

Cable type	Hardline	Center conductor	Copper-clad aluminum
Network applications	Trunk, Distribution	Outer conductor	Aluminum
Impedance	75 Ohm	Dielectric material	Foam PE
Advanced Coring Technology	Yes	Cable construction	Swaged

## Cable Construction



## Ordering Information

Model	P3 500	P3 565	P3 625	P3 700	P3 750	P3 840	P3 875
Diameter over shield (inches)	0.500"	0.565"	0.625"	0.700"	0.750"	0.840"	0.875"
<b>Aerial</b>							
Unjacketed	P3 500 CA	N/A	P3 625 CA	N/A	P3 750 CA	N/A	P3 875 CA
Jacketed (Polyethylene)	P3 500 JCA	P3 565 JCA	P3 625 JCA	P3 700 JCA	P3 750 JCA	P3 840 JCA	P3 875 JCA
Flooded	P3 500 JCASP	N/A	P3 625 JCASP	N/A	P3 750 JCASP	N/A	P3 875 JCASP
<b>Messenger wire (diameter)</b>							
0.109"	P3 500 JCAM109	P3 565 JCAM109	P3 625 JCAM109	N/A	N/A	N/A	N/A
0.188"	P3 500 JCAM188	N/A	P3 625 JCAM188	P3 700 JCAM188	P3 750 JCAM188	N/A	N/A
0.250"	N/A	N/A	N/A	N/A	P3 750 JCAM250	N/A	N/A
<b>Underground buried</b>							
Flooded	P3 500 JCASS	P3 565 JCASS	P3 625 JCASS	P3 700 JCASS	P3 750 JCASS	P3 840 JCASS	P3 875 JCASS
<b>Steel armor (chrome plated)</b>							
	P3 500 JACASS	N/A	P3 625 JACASS	N/A	P3 750 JACASS	N/A	P3 875 JACASS
<b>Other options available</b>							
Riser flame Rated	Yes	No	Yes	No	No	No	No
Alternative jacket	Yes	No	Yes	No	Yes	No	Yes
Tracer Stripe*	Yes	Yes	Yes	No	Yes	Yes	Yes
<b>Tracer stripe color options</b>							
Colors available: Blue (T B); Green (T G); Orange (T O); Red (T R); Yellow (T Y)	A colored stripe can be added to the cable for identification purposes. Append the color code – "T B" for blue, for example – to the end of any part number. <b>Examples</b> P3 500 JCAT R                      0.500" diameter, aerial standard cable with red stripe P3 625 JCAT O M109                0.625" diameter, messenger cable with orange stripe P3 750 JCASST W                    0.750" diameter, underground cable with white stripe						

# Quantum Reach® (QR®) coaxial cables

## Specifications

Cable type	Hardline	Center conductor	Copper-clad aluminum
Network applications	Trunk, Distribution	Outer conductor	Aluminum
Impedance	75 Ohm	Dielectric material	Foam PE
Advanced Coring Technology	Yes	Cable construction	Welded aluminum shield

## Cable Construction



## Ordering Information

Model		QR 540	QR 715	QR 860
Diameter over shield (inches)		0.540"	0.715"	0.860"
<b>Aerial</b>				
	Standard	QR 540 JCA	QR 715 JCA	QR 860 JCA
	Flooded	QR 540 JCASP	QR 715 JCASP	QR 860 JCASP
<b>Messenger wire (diameter)</b>				
	0.109"	QR 540 JCAM109	N/A	N/A
	0.188"	N/A	QR 715 JCAM188	QR 860 JCAM188
	0.250"	N/A	QR 715 JCAM250	N/A
<b>Underground buried</b>				
		QR 540 JCASS	QR 715 JCASS	QR 860 JCASS
<b>Steel armor (chrome plated)</b>				
		QR 540 JACASS	QR 715 JACASS	QR 860 JACASS
<b>Other options available</b>				
	Riser flame Rated	Yes	No	No
	Alternative jacket	Yes	Yes	Yes
	Tracer Stripe*	Yes	Yes	Yes
<b>Tracer stripe color options</b>				
	Colors available: Blue (T B); Green (T G); Orange (T O); Red (T R); Yellow (T Y)	A colored stripe can be added to the cable for identification purposes. Append the color code – "T B" for blue, for example – to the end of any part number. <b>Examples</b> QR 540 JCAT B                      0.540" diameter, aerial standard cable with blue stripe QR 540 JCAT G M109              0.540" diameter, messenger cable with green stripe QR 540 JCASST Y                  0.540" diameter, underground cable with yellow stripe		

# XpressPrep® coaxial cables

## Specifications

Cable type	Drop	Center conductor	Copper-clad steel
Network applications	Indoor/Outdoor	Outer conductor	Aluminum
Impedance	75 Ohm	Dielectric material	Foam PE (Gas Expanded Polyethylene)
		Cable construction	Braid

## Cable Construction

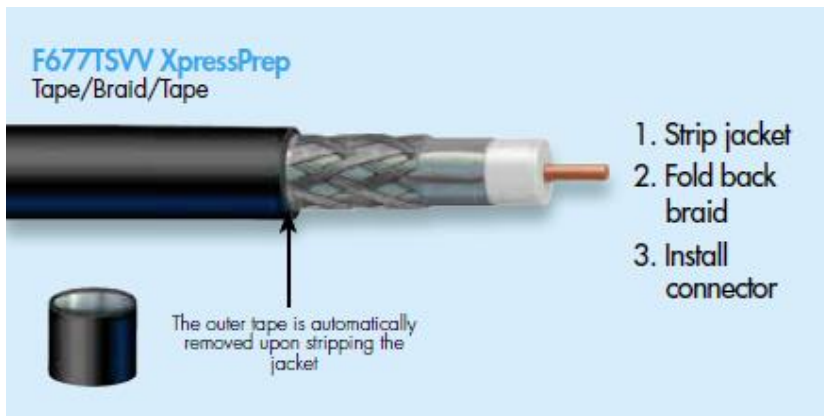


## Ordering Information

Part number	Braid	Shield	Jacket	other
<b>Series 6</b>				
F677TSVV XP	77%	Tri-Shield	PVC	NEC CATV (V-Tray Jacket)
F677TSVM XP	77%	Tri-Shield	PVC	Messenger cable
F677TSEF XP	77%	Tri-Shield	PE	Flooded (MigraHeal compound)
<b>Series 11</b>				
F1177TSVV XP	77%	Tri-Shield	PVC	NEC CATV (V-Tray Jacket)
F1177TSVM XP	77%	Tri-Shield	PVC	Messenger cable
F1177TSEF XP	77%	Tri-Shield	PE	Flooded (MigraHeal compound)
<b>Series 59</b>				
F59 HEC VV XP	95%	Quad-Shield	PVC	CATV, Flame retardant PVC Jacket

Note: The above list represents the most commonly ordered XP cables. Additional cable types may be available. Please check with PLM.

## Faster, more consistent connectorization with XpressPrep. Everytime.



## Product Information

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- [QR cable performance Application Note](#)
- [Product NewsFLASH: Advancements in CommScope's P3 and QR Coaxial Cables Surpass Industry Standards for DOCSIS 3.1 Extended Frequency Testing](#)
- [Drop Cable Construction Manual](#)
- [Trunk and Distribution Construction Manual](#)
- [Interference from cellular networks on coax](#)
- [XP drop cables](#)
- [E2O cables](#)
- [Alternative Jacket for cables](#)

## Contact Information

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