

Altelix AX240™ Series

Flexible Low Loss Coax Cable

- Drop-in Replacement for Times Microwave LMR®-240 Series, Commscope CNT®-240 Series & other 240-series variants
- High-performance alternative to RG8X
- Low Loss, High-Performance
- Fits Standard 240-Series Connectors

PE JACKET

ULTRA FLEXIBLE

FIRE RETARDANT

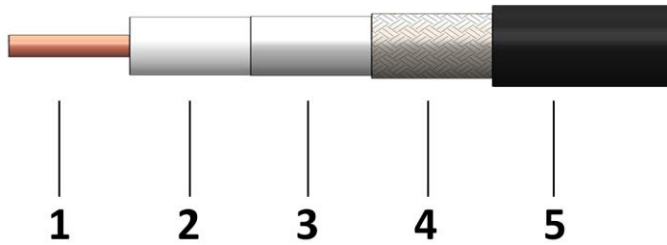
FIRE RETARDANT WHITE

PLENUM



**Altelix**[™]
CONNECTIVITY EVOLVED[™]

Cable Description			
Part #	Application	Jacket	Color
AX240	Indoor/Outdoor	PE	Black
AX240UF	Indoor/Outdoor	TPE	Black
AX240FR	Indoor/Outdoor Riser CMR	FR PE	Black
AX240FRW	Indoor/Outdoor Riser CMR	FR PE	White
AX240P	Indoor/Outdoor Plenum CMP	FR PVC	Orange



Construction Specifications			
Description	Material	In.	(mm)
AX240, AX240FRW, AX240FRW, AX240P			
1 - Inner Conductor	Solid Copper	0.056	(1.42)
2 - Dielectric	Foam Polyethylene	0.15	(3.81)
3 - Inner Shield 4 - Outer Shield	Bonded Aluminum Foil Tinned Copper Braid	0.178	(4.52)
5 - Jacket	(see table)	0.24	(6.10)
AX240UF			
1 - Inner Conductor	Stranded BC	0.056	(1.42)
2 - Dielectric	Foam Polyethylene	0.15	(3.81)
3 - Inner Shield 4 - Outer Shield	Bonded Aluminum Foil Tinned Copper Braid	0.178	(4.52)
5 - Jacket	Black TPE	0.24	(6.10)

Environmental Specifications		
Performance Property	°F	°C
AX240, AX240UF, AX240FRW, AX240FRW		
Installation Temperature Range	-95/185	-70/+85
Storage Temperature Range	-40/185	-40/+85
Operating Temperature Range	-40/185	-40/+85
AX240P		
Installation Temperature Range	23/167	-5/+75
Storage Temperature Range	23/167	-5/+75
Operating Temperature Range	23/167	-5/+75

Compliance	
RoHS	Compliant
REACH	Compliant

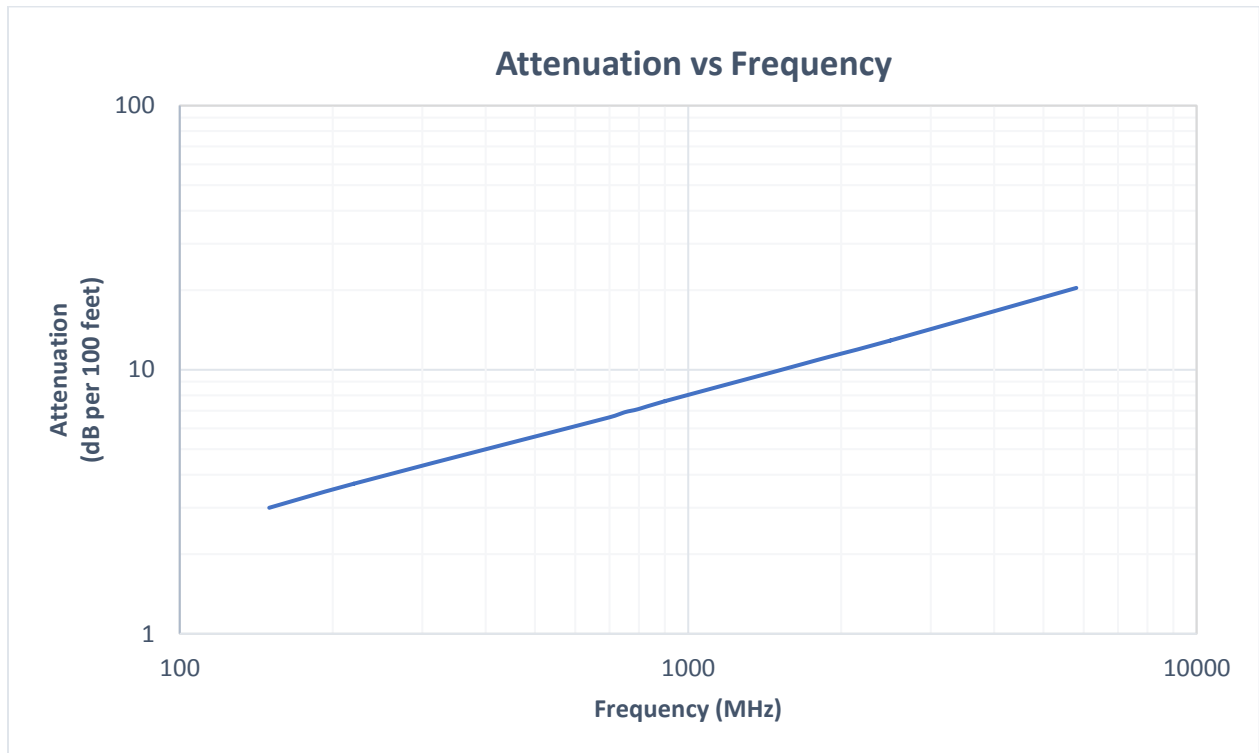
Mechanical Specifications			
Performance Property	Units	US	(metric)
AX240, AX240FRW, AX240FRW			
Bending Radius: Installation	in. (mm)	0.75	(19.1)
Bending Radius: Repeated	in. (mm)	2.5	(63.5)
Bending Moment	ft-lb (N-m)	0.25	(0.34)
Tensile Strength	lb. (kg)	80	(36.3)
AX240UF			
Bending Radius: Installation	in. (mm)	0.75	(19.1)
Bending Radius: Repeated	in. (mm)	2.5	(63.5)
Bending Moment	ft-lb (N-m)	0.125	(0.17)
Tensile Strength	lb. (kg)	80	(36.3)
AX240P			
Bending Radius: Installation	in. (mm)	0.75	(19.1)
Bending Radius: Repeated	in. (mm)	2.5	(63.5)
Bending Moment	ft-lb (N-m)	0.25	(0.34)
Tensile Strength	lb. (kg)	60	(27.2)

Electrical Specifications		
Performance Property	Units	US (metric)
AX240, AX240UF, AX240FRW, AX240FRW		
Impedance	ohms	50
Capacitance	pF/ft (pF/m)	24.2 (79.4)
Velocity	%	84
Shielding Effectiveness	dB	>90
Peak Power	kW	5.6
Jacket Spark	VAC	5000
AX240P		
Impedance	ohms	50
Capacitance	pF/ft (pF/m)	25.1 (82.5)
Velocity	%	76
Shielding Effectiveness	dB	>90
Peak Power	kW	5.6
Jacket Spark	VAC	3000

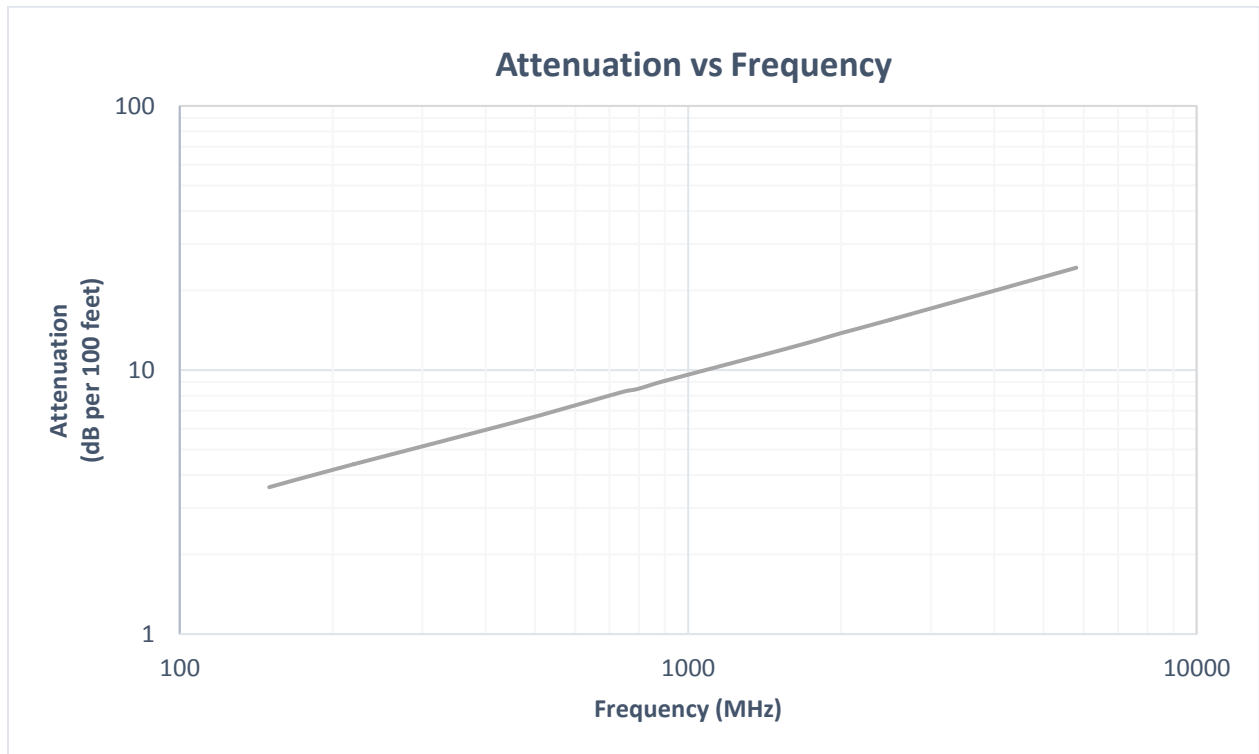
Packaging			
Part #	500ft Reel	1000ft Reel	Per Foot
AX240	Contact Us	✓	✓
AX240UF	✓	Contact Us	✓
AX240FR	Contact Us	✓	✓
AX240FRW	Contact Us	✓	✓
AX240P	Contact Us	✓	✓



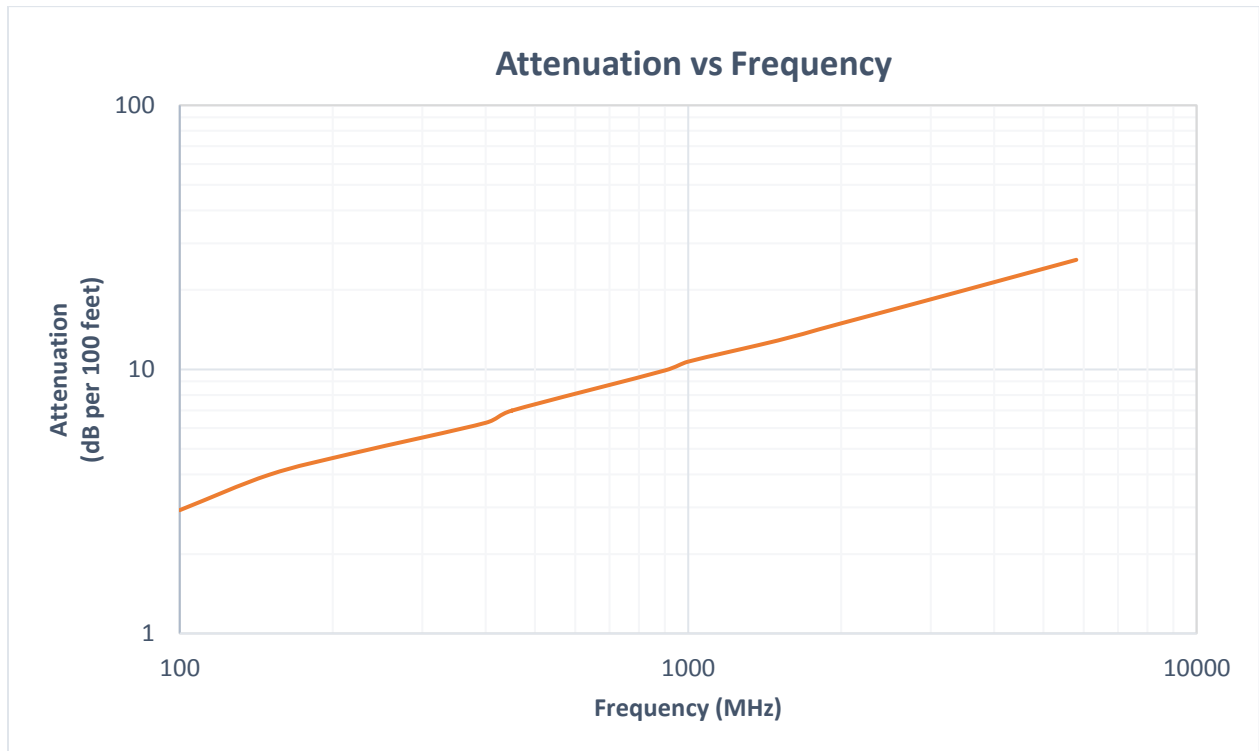
RF Performance – AX240, AX240FR, AX240FRW		
Frequency (MHz)	Attenuation (dB/100ft)	Average Power (KW)
150	3.0	0.66
220	3.7	0.54
450	5.3	0.38
700	6.6	0.29
750	6.9	0.28
800	7.1	0.27
900	7.6	0.26
1500	9.9	0.20
1800	10.9	0.18
2000	11.5	0.17
2500	12.9	0.15
5800	20.1	0.10



RF Performance – AX240UF		
Frequency (MHz)	Attenuation (dB/100ft)	Average Power (KW)
150	3.6	0.55
220	4.4	0.45
150	6.3	0.31
700	8.0	0.29
150	8.3	0.28
800	8.5	0.27
900	9.1	0.22
1500	11.8	0.17
1800	13.0	0.15
2000	13.8	0.15
2500	15.5	0.13
5800	24.4	0.08



RF Performance – AX240P		
Frequency (MHz)	Attenuation (dB/100ft)	Average Power (KW)
100	2.92	0.71
150	3.99	0.52
220	4.82	0.43
400	6.28	0.33
150	6.98	0.30
900	9.91	0.21
1000	10.70	0.19
1500	12.86	0.16
1800	14.14	0.15
2000	14.94	0.14
1500	16.76	0.12
3400	19.66	0.10
5800	26.00	0.08



Altelix 240-Series Connectors

 <p>N-Male Crimp #CC240CNM</p>	 <p>N-Male Right Angle Crimp #CC240CNM-1</p>	 <p>N-Female Crimp #CC240CNF</p>	 <p>N-Female Bulkhead Crimp #CC240CNFB</p>
 <p>N-Male Clamp #CC240WNFB</p>	 <p>N-Male Right Angle Clamp #CC240WNM-1</p>	 <p>N-Female Clamp #CC240WNF</p>	 <p>RP-TNC Male Right Angle Crimp #CC240CRTM-1</p>
 <p>RP-SMA Female Crimp #CC240CRSF</p>	 <p>RP-SMA Female Bulkhead Crimp #CC240CRSFB</p>	 <p>RP-SMA Male Crimp #CC240CRSM</p>	 <p>RP-SMA Male Right Angle Crimp #CC240CRSM-1</p>
 <p>SMA Female Crimp #CC240CSF</p>	 <p>SMA Female Bulkhead Crimp #CC240CSFB</p>	 <p>SMA Male Crimp #CC240CSM</p>	 <p>SMA Male Right Angle Crimp #CC240SM-1</p>
 <p>UHF Female Crimp (SO-239) #CC240CUF</p>	 <p>UHF Male Crimp (PL-259) #CC240CUM</p>		

Don't see the product you are looking for? Contact Altelix Sales and we can help you with all your coax cable and connector requirements.