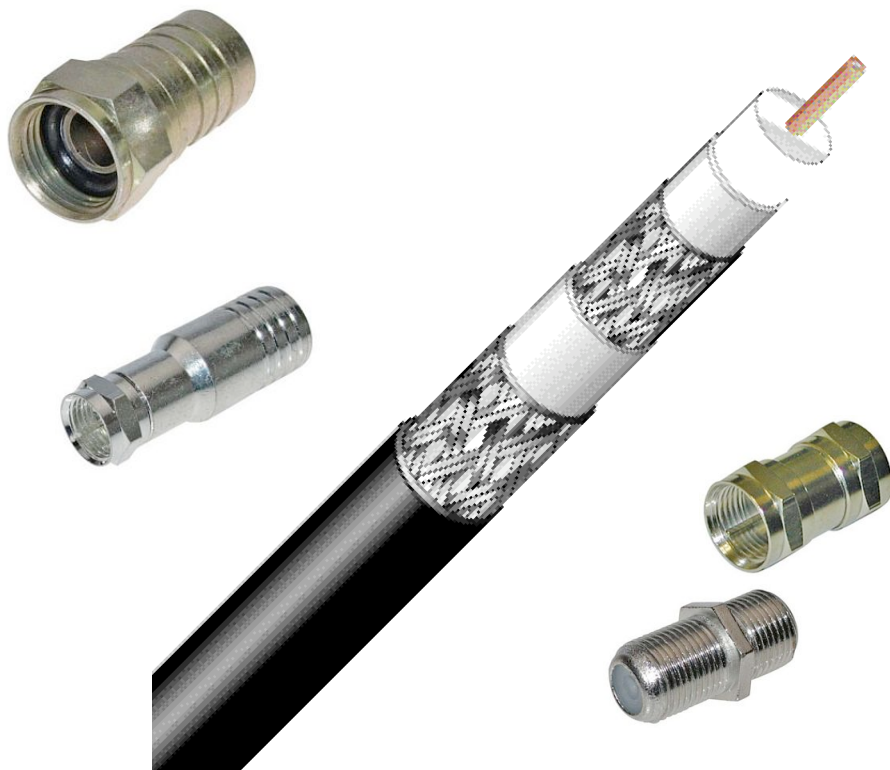


WEST PENN WIRE

CATV/MATV Cables



CATV/MATV Cable Overview

CATV CABLES					
Catalog No.	Description	Crimp "F" Type Connector	Crimp Tool	Strip Tool	Compression "F" Type
841	RG6/U CATV	CN-F556ALM	TL-111	TL-120	CN-CSF-6
6100	RG6/U CATV	CN-F556ALM	TL-111	TL-120	CN-CSF-6
AQC841	RG6/U CM In/out	CN-F56AQ	TL-111	TL-120	CN-CSF-6
6140	RG6/U Flooded burial	CN-F556ALM	TL-111	TL-120	CN-CSF-6
6150	RG6/U Dual CATV	CN-F556ALM	TL-111	TL-120	CN-CSF-6
6500	RG6/U Dual CATV Q.S	CN-F556ALM	TL-111	TL-120	CN-FCP-6QD
HQ841	RG6/U CATV Q.S	CN-F556ALX	TL-111	TL-120	CN-FCP-6QD
HQ841R	RG6/U CATVR Q.S.	CN-F556ALX	TL-111	TL-120	CN-FCP-6QD
Q841	RG6/U CATV Q.S	CN-F556ALX	TL-111	TL-120	CN-FCP-6QD6
6300	RG6/U CATV Q.S	CN-F556ALX	TL-111	TL-120	CN-FCP-6QD
6310	RG6/U CATV Q.S Out	CN-F556ALX	TL-111	TL-120	CN-FCP-6QD
25841	RG6/U CATVP	CN-F556TFE	TL-111	TL-120	CN-FS6PL2
256100	RG6/U CATVP	CN-F556TFE	TL-111	TL-120	CN-FS6PL2
25Q841	RG6/U CATVP Q.S	CN-F556ALM	TL-111	TL-120	CN-DB6PL2
256300	RG6/U CATVP Q.S	CN-F556ALM	TL-111	TL-120	CN-DB6PL2
1100	RG11/U CATV	CN-F11ALX	TL-112	TL-124	CN-FS11V
821	RG11/U CATV	CN-F11ALX	TL-112	TL-124	CN-FS11V
1110	RG11/U Flooded Burial	CN-F11ALX	TL-112	TL-124	CN-FS11V
Q821	RG11/U CATV Q.S	CN-F11ALX	TL-112	TL-124	CN-FS11PL
25821	RG11/U CATVP	CN-F11TFE	TL-112	TL-124	CN-FS11PL
25Q821	RG11/U CATVP Q.S	CN-F11TFE	TL-112	TL-124	CN-FS11PL

RF- "F" TYPE CABLES

BROADBAND COMPOSITE ANALOG VIDEO: 10Mhz-1Ghz

Applications include:

- CATV/MATV- Cable Television and Master Antenna Television

Design of the coaxial cable

- Center conductor: Solid
 - Copper covered Steel
 - Bare copper
- Dielectric:
 - Foam
- Shielding:
 - 100% Aluminum polyester Foil
 - Low-mid range Aluminum Braiding



OTHER SHIELDING CONSTRUCTIONS

- TRI-SHIELD
- QUAD-SHIELD
- Jacket:
 - Dependent on application and environment

ANALOG VIDEO:

Composite analog video a signal in which the *luminance*(Y), *chrominance*(C), and *Synchronization* (Sync) are multiplexed in the frequency, time, and amplitude domain for single-wire transmission.

Primary RGB component signals are generated by a camera, then processed to produce analog composite video signals (NTSC, PAL), all systems use a wideband *luminance*and two narrowband frequencies for the *chrominance*signals.

Composite Analog Video typically has a Peak-to-Peak amplitude of 1V .

- Luminance (0-700mv)
- Chrominance (0-300mv)

STANDARDS FOR COMPOSITE VIDEO:

- NTSC - National Television Systems Committee **SDTV**-- USA
 - 525/60 (525 Lines/frame)/ (60 cycles or frequency)
 - Sub-carrier frequency (Color) 3.58Mhz
 - 4.2Mhz video bandwidth
 - 6Mhz RF channel transmission

PERFORMANCE:

Analog signals are exposed to many distortions That will effect signal transmission:

- Linear Distortion
- Non-Linear Distortions
- Noise

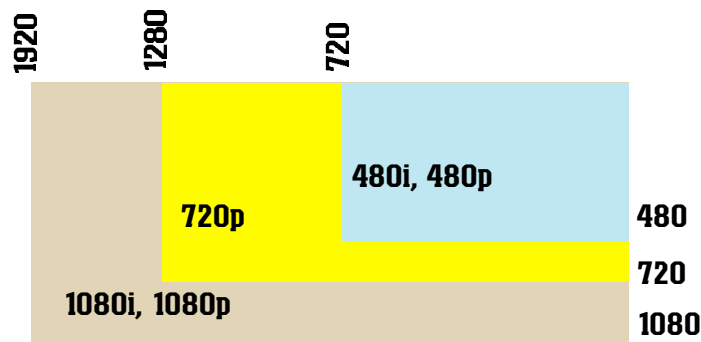
NTSC - SDTV- Standard definition Television- 525 lines of resolution- Approx. 480 lines are active.

Video is painted on the screen line by line in two passes this is called "interlacing", when being painted in sequence in one pass is called "progressive" (480i and 480p)

OTHER FORMATS:

EDTV: Enhanced Definition Television- 480p (VGA)

HDTV: High Definition Television - Increases the number of scan lines on the screen and widens the aspect ratio from 4:3 to 16:9-- (720i, 720p) and (1080i , 1080p)



CATV/MATV

"F" Type Connectors

"F" type Connectors	
Catalog No.	Description
CN-F59ALM	RG59/U
CN-F59ALX	RG59/U Tri/Quad Shield
CN-F56ALM	RG6/U
CN-F56ALX	RG6/U Quad Shield
CN-F59TFE/WP	RG59/U West Penn Plenum
CN-F56TFE	RG6/U Plenum
CN-F56AQ	RG6/U Zinc plated with rubber O-Ring
CN-F59F	RG59/U Female
CN-F59T	75 Ohm "F" Terminator
CN-F59TW	RG59/U Twist-On
CN-F56TW	RG6/U Twist-On
CN-F56GEL	RG6/U Gel Filled with O-Ring
CN-F11ALX	RG11/U
CN-F11TFE	RG11/U Plenum



CN-F59ALM



CN-F59T



CN-F11ALX

CATV/MATV

"F" Type Compression Connectors

"F" Type Compression Connectors	
Catalog No.	Description
CN-CSF-6	RG6/U
CN-FSNSQS-6	RG6/U Quad-Shielded- PVC
CN-FS6PL2	RG6/U Plenum
CN-FSNS-11	RG11/U and Quad-Shield
CN-FS11V	RG11/U
CN-FS11PL	RG11/U Plenum and Quad (Plenum)
CN-FCP-825	MiniMax 25Awg.
CN-FCP-59	RG59/U
CN-FCP-56	RG6/U
CN-FCP-6QD	RG6/U Quad Shield
CN-DB6PL2	25Q841 and 256300



CN-CSF-6

"F" Type Barrel and Adaptors	
Catalog No.	Description
CN-F81	F Barrel Splice
CN-F81NW	F Barrel Splice with Nut and Washer
CN-F71	F Male to Male Adaptor

CATV/MATV Assorted Adaptors



CATV/MATV Splitters



11-4180

Splitters	
Catalog No.	Description
11-4120	2 Way Splitter
11-4130	3 Way Splitter
11-4140	4 Way Splitter
11-4180	8 Way Splitter
GHS-2	2 Way Splitter- 1 GHZ
GHS-4	4 Way Splitter- 1 GHZ

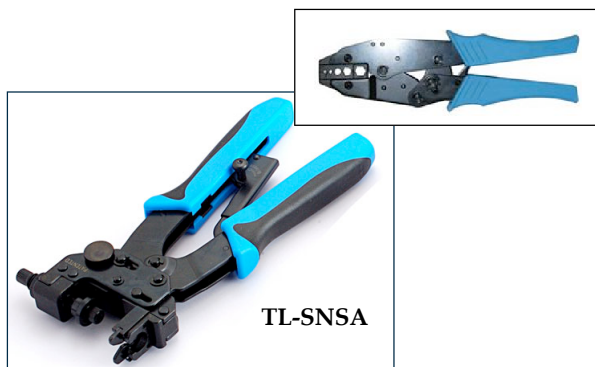
Stripping Tools	
Catalog No.	Description
TL-120	2 Cut Tool- RG59, RG6, RG58
TL-124	3 Cut Tool RG8, RG11, RG213
TL-CSST	Compression Strip Tool- 2 Cut
TL-59-6	Miniature Stripping Tool RG59 and 6

CATV/MATV Strip Tools



Replacement Blades	
Catalog No.	Description
TL-133	TL-120

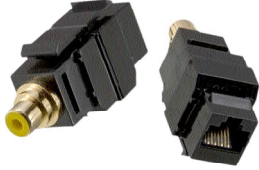
CATV/MATV Crimp/ Compression Tools



Tools Crimp and Compression	
Catalog No.	Description
TL-111	RG59/ RG6
TL-112	RG6/ RG11 (CN-F11ALX)
TL-115	Plenum RG11
TL-SNSA	Compression Tool RG59/ RG6
TL-SNS11	Compression Tool RG11
TL-548G	Alternate Compression Tool
TL-8808	"F" Compression Tool

CATV/MATV Baluns

CATV/MATV Passive Balun- "F" Type	
CN-CATVF	"F" Type to RJ45



CATV/MATV Passive Balun- RCA	
CN-CATVRCA	RCA Type to RJ45 Keystone Insert Design

CATV/MATV Racks

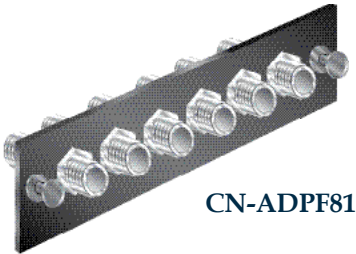
Free Standing Racks	
WPDR-4819	19' Free Standing Rack- 48"
WPDR-7219	19' Free Standing Rack- 72"
WPDR-8419	19' Free Standing Rack- 84"
WPCR-8419	19' Cable Management Rack- 84"



CATV/MATV Empty Patch Panels

Rack Mount Patch Panels	
FI-RM24	Empty Rack - Load with 4 Adaptor Plates
FI-RM48	Empty Rack - Load with 8 Adaptor Plates
FI-RM72	Empty Rack - Load with 12 Adaptor Plates

CATV/MATV Adaptor Plates



"F" Type Adaptor Plates	
CN-ADPF81	6 "F" Type Female to Female Plate Installed
CN-ADPF81E	6 "F" Type Position Plate Empty
CN-ADP6BNK	Blank Plate