



# Product Line Reference Guide



## COPPER CABLING SYSTEMS

## Copper Cabling Systems

AFL's copper cabling systems are the best-in-class, providing superior performance and reliability. No matter what category of cabling you need AFL can assist. From Category 6<sub>A</sub> to Category 6 and Category 5e you will find a solution fit for purpose in the most advanced networks. Both Unshielded and Shielded solutions are available depending upon your network requirements. The Category 6<sub>A</sub> Unshielded solution meets ANEXT (Alien Cross-Talk) standards by design alleviating the need for in field testing, saving time and money.



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Date: June 2017

### Statement of Conformance – Category 6<sub>A</sub> (Class E<sub>A</sub>) Connecting Hardware

#### **Conformance to AS/NZS 3080:2013 by: Design Variation to Reference Implementation Method for Permanent Links**

The AFL balance cabling system complies with AS/NZS 3080:2013 performance requirements for a reference implementation under the following design variation conditions:

1. The permanent link is installed in accordance with the AFL CSG (warranty) requirements.
2. The installed link is tested to AFL testing requirements and AS/NZS ISO/IEC 61935.1 for all transmission parameters at Class E<sub>A</sub> listed as Normative Table B.1 of AS/NZS 3080:2013 excluding Alien Crosstalk.
3. The Permanent Link is no less than 5m in length.

AFL confirm that Alien Crosstalk testing is met by design and that this statement is supported by laboratory testing, conducted by Power and Digital Instruments Pty Ltd.

Sincerely,

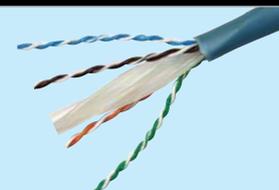
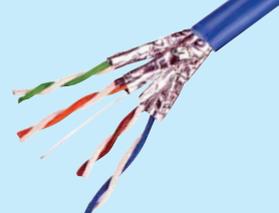
A handwritten signature in blue ink that reads 'Glen Johnston'.

**Glen Johnston**  
Senior Product Manager

## Category 6<sub>A</sub> Cable

AFL's range of Category 6<sub>A</sub> cable has link and channel performance meeting internationally defined physical and electrical characteristics up to 500 MHz.

This cable is suitable for indoor use in static applications in both horizontal and backbone cabling in a structured cabling system.

PRODUCT		DESCRIPTION		
Category 6 <sub>A</sub> U-UTP 4 Pair Copper Cable		<b>ORDERING INFORMATION</b>		<b>PACKAGING</b>
		AFLCABLE6A-BL	Category 6A U-UTP 4 Pair Copper Cable, Blue	305 m reel
		AFLCABLE6A-BL-L	Category 6A U-UTP 4 Pair Copper Cable LSZH, Blue	305 m reel
		AFLCABLE6A-GY	Category 6A U-UTP 4 Pair Copper Cable, Grey	305 m reel
Category 6 <sub>A</sub> F-UTP 4 Pair Copper Cable		<b>ORDERING INFORMATION</b>		<b>PACKAGING</b>
		AFLCABLE6AF-BL	Category 6A F-UTP 4 Pair Copper Cable, Blue	305 m reel
		AFLCABLE6AF-BL-L	Category 6A F-UTP 4 Pair Copper Cable LSZH, Blue	305 m reel
		AFLCABLE6AF-GY	Category 6A F-UTP 4 Pair Copper Cable, Grey	305 m reel
Category 6 <sub>A</sub> U-FTP 4 Pair Copper Cable		<b>ORDERING INFORMATION</b>		<b>PACKAGING</b>
		AFLCABLE6AS-BL	Category 6A U-FTP 4 Pair Copper Cable, Blue	305 m reel

## Category 6<sub>A</sub> Patch Panels

PRODUCT		DESCRIPTION		
VELOCITY™ Patch Panels		AFL's VELOCITY™ cabling solutions deliver outstanding system performance, surpassing the requirements of ISO, EIA/TIA and AS/NZ standards. Designed to provide the ultimate in throughput, the VELOCITY™ solution provides the best link and channel performance available and the ultimate in long-term cabling plant value.		
		<b>ORDERING INFORMATION</b>		<b>PACKAGING</b>
		VEL-1RU-24C6AU	Patch Panel Category 6A UTP 24 Port 1RU	Kit
		VEL-1RU-24C6AS	Patch Panel Category 6A Shielded 24 Port 1RU	Kit
		VEL-1RU-48C6AS	Patch Panel Category 6A Shielded 48 Port 1RU	Kit
		VEL-1RU-24C6AS-A	Patch Panel Category 6A Shielded 24 Port Angled 1RU	Kit
		VEL-1RU-24C6AU-S	Patch Panel Category 6A UTP 24 Port Staggered 1RU	Kit
		VEL-1RU-24C6AS-S	Patch Panel Category 6A Shielded 24 Port Staggered 1RU	Kit
		<b>Unloaded</b>		
		VEL-1RU-24UL	Patch Panel 24 Port 1RU – Unloaded	Each
		VEL-1RU-48UL	Patch Panel 48 Port 1RU – Unloaded	Each
		VEL-1RU-24UL-A	Patch Panel 24 Port Angled 1RU – Unloaded	Each
		VEL-1RU-24UL-S	Patch Panel 24 Port Staggered 1RU – Unloaded	Each
		<b>Labelling and Cable Management</b>		
VEL-1RU-CTRAY	Cable Tray with Labelling 1RU – Front Mount	Each		

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## Category 6<sub>A</sub> Outlets

PRODUCT		DESCRIPTION		
Category 6 <sub>A</sub> UTP Outlet		AFL's Category 6 <sub>A</sub> outlets offer best-in-class component performance. These RJ45 outlets are available with both keystone and Clipsal mounting clips. The keystone mounting outlets are for use in AFL patch panels and surface mount boxes whilst the Clipsal mounting outlets fit directly into standard faceplates without the need for an adaptor. These outlets offer exceptional performance that exceed industry standards. Offering Universal T568A/B wiring and the option of tool or tool-less termination.		
		<b>ORDERING INFORMATION</b>	<b>PACKAGING</b>	
		AFLC6AU-WH	Outlet Category 6A UTP White Keystone	Each
		AFLC6AU-BK	Outlet Category 6A UTP Black Keystone	Each
		AFLC6AU-WHC	Outlet Category 6A UTP White Clipsal Mount	Each
AFLC6AU-BK8	Outlet Category 6A UTP Black Keystone	Bag of 8		
Category 6 <sub>A</sub> Shielded Outlet		The AFL Category 6 <sub>A</sub> fully shielded outlet is component compliant with exceptional Alien Cross-Talk performance. The outlet has the option of both tool and tool-less termination. When used in a network with AFL's cable and patch panels you can be assured of network performance exceeding 10 Gigabit.		
		<b>ORDERING INFORMATION</b>	<b>PACKAGING</b>	
		AFLC6AS	Outlet Category 6A Shielded Keystone	Each
Category 6 <sub>A</sub> Shielded Outlet (Side Entry)		This outlet includes a cable management piece providing side entry. When used in a network with AFL's cable and patch panels you can be assured of network performance exceeding 10 Gigabit.		
		<b>ORDERING INFORMATION</b>	<b>PACKAGING</b>	
		BC6AFS	Outlet Category 6A Shielded Keystone – Side Entry	Each



## Category 6<sub>A</sub> Patchcords

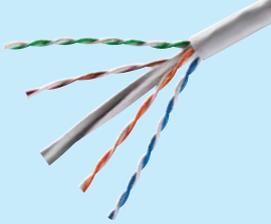
PRODUCT		DESCRIPTION		
Patchcords Unshielded		AFL have the ability to manufacture an extensive range of Category 6 <sub>A</sub> UTP patchcords. These can be configured to varying lengths and a large variety of colours.		
		<b>ORDERING INFORMATION</b>	<b>PACKAGING</b>	
		AFL6Axxx-BU	Patchcord Category 6A UTP Blue LSZH	Each
		AFL6Axxx-GY	Patchcord Category 6A UTP Grey LSZH	Each
		AFL6Axxx-RD	Patchcord Category 6A UTP Red LSZH	Each
		AFL6Axxx-GN	Patchcord Category 6A UTP Green LSZH	Each
		AFL6Axxx-YL	Patchcord Category 6A UTP Yellow LSZH	Each
		AFL6Axxx-SP	Patchcord Category 6A UTP Salmon LSZH	Each
x = length (eg. 010 = 1 m, 015 = 1.5 m)				
Patchcords Shielded		AFL have the ability to manufacture an extensive range of Category 6 <sub>A</sub> shielded patchcords. These can be configured to varying lengths and a large variety of colours.		
		<b>ORDERING INFORMATION</b>	<b>PACKAGING</b>	
		AFL6ASxxx-BU	Patchcord Category 6A STP Blue	Each
		AFL6ASxxx-GY	Patchcord Category 6A STP Grey	Each
		AFL6ASxxx-GN	Patchcord Category 6A STP Green	Each
		AFL6ASxxx-YL	Patchcord Category 6A STP Yellow	Each
		x = length (eg. 010 = 1 m, 015 = 1.5 m)		
		Patchcords Reduced Diameter		These reduced diameter patchcords reduce clutter and improve cable management. They are channel complainant to Category 6 <sub>A</sub> standards.
<b>ORDERING INFORMATION</b>	<b>PACKAGING</b>			
AFL6AxxxSM-GY	Patchcord Category 6A F-UTP Reduced Diameter, Grey			Each
x = length (eg. 010 = 1 m, 015 = 1.5 m)				
Patchcords Traceable		These patchcords can be traced with the use of the AFL tracer tool. The tracer tool projects light to the opposite end of the patchcord.		
		<b>ORDERING INFORMATION</b>	<b>PACKAGING</b>	
		AFL6AxxxTR-GY	Patchcord Category 6A F-UTP Traceable, Grey	Each
		x = length (eg. 010 = 1 m, 015 = 1.5 m)		
Field Terminable Plug		This Field Terminable Plug is a full shielded RJ45 with rotatable head that maintains adequate bending radius in restricted spaces. This toolless plug is the perfect solution for direct attachment to IP devices including IP cameras, IP access control and Wifi access points.		
		<b>ORDERING INFORMATION</b>	<b>PACKAGING</b>	
		PLAG6AFS	Full shielded angled RJ45 plug	Each

## Pre-terminated Cable Assemblies

PRODUCT		DESCRIPTION		
VELOCITY™ Pre-terminated Cable Assemblies		AFL offers fully pre-terminated and factory tested copper cabling solution for Category 6 <sub>A</sub> shielded networks. AFL offers the flexibility to have one end or both ends terminated for use in cross connects, or consolidation points.		
		<b>ORDERING INFORMATION</b>	<b>PACKAGING</b>	
		<b>RJB</b> — <b>6AFTP</b> — <b>XX</b>		
		RJB = RJ45 Bundle RJB = RJ45 Bundle Pigtail	6AFTP = Cat6A F-UTP	<b>Length (m)</b> xx = meters
		BU/PK = Blue/Pink (for Defence)		
		VEL-1RU-24UL	Patch Panel 24 Port 1RU Unloaded	Each
		VEL-1RU-24UL-A	Patch Panel 24 Port 1RU Angled Unloaded	Each

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## Category 6 Cable

PRODUCT		DESCRIPTION																
Category 6 U-UTP 4 Pair Copper Cable		AFL's Category 6 cable is amongst the best performers on the market today. Its improved crosstalk and attenuation performance make it ideal for the most advanced networks. It is perfectly matched to AFL's Category 6 outlets and patch panels guaranteeing exceptional network performance well into the future.																
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## Category 6 Patch Panels

PRODUCT		DESCRIPTION																																					
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VEL-1RU-CTRAY	Cable Tray with Labelling 1RU – Front Mount	Each																																					

## Category 6 Outlets

PRODUCT		DESCRIPTION													
Category 6 U-UTP Outlet		AFL's Category 6 outlets offer best-in-class Category 6 component performance. These RJ45 outlets are available with both keystone and Clipsal mounting clips. The keystone mounting outlets are for use in AFL patch panels and surface mount boxes whilst the Clipsal mounting outlets fit directly into standard faceplates without the need for an adaptor. These outlets offer exceptional performance that exceed industry standards. Offering Universal T568A/B wiring and the option of tool or tool-less termination.													
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ORDERING INFORMATION		PACKAGING													
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AFLC6U-BK	Outlet Category 6 UTP Black Keystone	Each													
AFLC6U-WHC	Outlet Category 6 UTP White Clipsal Mount	Each													
AFLC6U-BK8	Outlet Category 6 UTP Black Keystone	Bag of 8													

## Category 6 Patchcords

PRODUCT		DESCRIPTION		
Patchcords Unshielded		AFL Category 6 patchcords are component compliant and are 100% tested. They feature a latch protector and strain relief and are available in a variety of colours and lengths.		
		<b>ORDERING INFORMATION</b>	<b>PACKAGING</b>	
		AFL6XXX-GY	Patchcord Category 6 UTP Grey	Each
		AFL6XXX-BU	Patchcord Category 6 UTP Blue	Each
		AFL6XXX-GN	Patchcord Category 6 UTP Green	Each
AFL6XXX-YL	Patchcord Category 6 UTP Yellow	Each		
Replace XXX with length (eg: 010 = 1 m, 015 = 1.5 m)				
Patchcords Reduced Diameter		These reduced diameter patchcords reduce clutter and improve cable management. They are channel compliant to Category 6 standards.		
		<b>ORDERING INFORMATION</b>	<b>PACKAGING</b>	
		AFL6xxxSM-GY	Patchcord Category 6 U-UTP Reduced Diameter, Grey	Each
		AFL6xxxSM-BU	Patchcord Category 6 U-UTP Reduced Diameter, Blue	Each
		x = length (eg. 010 = 1 m, 015 = 1.5 m)		

## Pre-terminated Cable Assemblies

PRODUCT		DESCRIPTION		
VELOCITY™ Pre-terminated Cable Assemblies		AFL offers fully pre-terminated and factory tested copper cabling solutions for Category 6 unshielded networks. AFL offers the flexibility to have one end or both ends terminated for use in cross connects, or consolidation points.		
		<b>ORDERING INFORMATION</b>		
		<b>RJB</b> — <b>6UTP</b> — <b>XX</b>		
		RJB = RJ45 Bundle RJB = RJ45 Bundle Pigtail	6UTP = Cat 6 UTP	<b>Length (m)</b> xx = meters
		BU/PK = Blue/Pink (for Defence)		
VEL-1RU-24UL	Patch Panel 24 Port 1RU Unloaded	Each		
VEL-1RU-24UL-A	Patch Panel 24 Port 1RU Angled Unloaded	Each		



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## Category 5e Cable

PRODUCT		DESCRIPTION		
Category 5e U-UTP 4 Pair Copper Cable		This range of unscreened cables is designed to support Cat 5 Enhanced link and channel performance.		
		ORDERING INFORMATION		PACKAGING
		AFLCABLE5U-GY	Cable Category 5e U-UTP Grey	Box 305 m
AFLCABLE5U-BL	Cable Category 5e U-UTP Blue	Box 305 m		

## Category 5e Patch Panels

PRODUCT		DESCRIPTION		
VELOCITY™ Patch Panels		AFL's VELOCITY™ cabling solutions provides the best link and channel performance available and the ultimate in long-term cabling plant value.		
		ORDERING INFORMATION		PACKAGING
		AFL24/5EU	Patch Panel 24 Port Category 5e UTP	Kit
		Unloaded		
		VEL-1RU-24UL	Patch Panel 24 Port 1RU – Unloaded	Each
		VEL-1RU-48UL	Patch Panel 48 Port 1RU – Unloaded	Each
		VEL-1RU-24UL-A	Patch Panel 24 Port Angled 1RU – Unloaded	Each
Labelling and Cable Management				
VEL-1RU-CTRAY	Cable Tray with Labelling 1RU – Front Mount	Each		

## Category 5e Outlets

PRODUCT		DESCRIPTION		
Category 5e U-UTP Outlet		AFL's Category 5e RJ45 outlets are available with both keystone and Clipsal mounting clips. The keystone mounting outlets are for use in AFL patch panels and surface mount boxes whilst the Clipsal mounting outlets fit directly into standard faceplates without the need for an adaptor. Offering Universal T568A/B wiring and have the option of tool or tool-less termination.		
		ORDERING INFORMATION		PACKAGING
		AFLC5U-WH	Outlet Category 5e UTP White Keystone	Each
		AFLC5U-BK	Outlet Category 5e UTP Black Keystone	Each
AFLC5U-WHC	Outlet Category 5e UTP White Clipsal Mount	Each		

## Category 5e Patchcords

PRODUCT		DESCRIPTION			
Patchcords		AFL's Category 5e patch and workstation cords are the perfect complement to any copper cabling system. AFL's Category 5e patchcords offer a strain-relief solution that ensures stability during and after adds, moves or changes.			
		ORDERING INFORMATION			
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px 5px;">RJ S 5E UTP 1M</div> <div style="font-size: 20px;">—</div> <div style="border: 1px solid black; padding: 2px 5px;">GN</div> </div>					
Connector type	Connector sub-type	Cable Type	Cable configuration	Length (m)	Cable Colour
RJ12 – RJ12 connector	S – Snagless	5E – Cat 5 Enhanced	UTP – Unterminated Twisted Pair		AQ – Aqua PK – Pink
RJ – RJ45 connector	Otherwise leave blank		STP – Shielded Twisted Pair		BK – Black SP – Salmon pink
110 – 110 connector			FTP – Foil Twisted Pair		BU – Blue PL – Purple
			SOL – Solid		BR – Brown RD – Red
					GN – Green WH – White
					GY – Grey YL – Yellow
					OR – Orange

# Secure Locking Keyed RJ45 Connectors, Cable Assemblies and Accessories

The Secure RJ cable assemblies and matching extraction tools are available in eight key ways and colors. White patchcord cable is standard. Red and blue cable colours as well as shielded patchcords can also be supplied upon request.

To complement the SRJ connectors, AFL provides the Secure RJ Locking Port Plugs acting as 'locking dust caps'. This enables empty RJ ports to be locked out preventing the unauthorised insertion of cable assemblies or connectors. The port plugs can be disconnected the same way as the SRJ connector by simply using the appropriately keyed extraction tool.



SRJ Keyed Extraction Tools

## Cable Assembly Part Number Conguration



## Secure RJ Component Part Numbers

KEY HOUSING COLOUR	PORT BLOCKER P/NO	EXTRACTION TOOL P/NO
Black	SRJPB-BK	SRJET-BK
Yellow	SRJPB-Y	SRJET-Y
Orange	SRJPB-O	SRJET-O
Red	SRJPB-R	SRJET-R
Blue	SRJPB-B	SRJET-B
Green	SRJPB-G	SRJET-G
Purple	SRJPB-P	SRJET-P
Admin	N/A	SRJET-A



SRJ Port Blockers

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## Surface Mount Boxes

PRODUCT		DESCRIPTION	PART NUMBER	PACKAGING
Surface Mount Box 1 Port		AFL's Surface Mount Boxes are a low-profile, workstation solution that offers flexibility for multiple network configurations. Complete with colour coded ICONs and shutters to protect the outlet when not in use.	AFLSMB1	Each
Surface Mount Box 2 Port		AFL's Surface Mount Boxes are a low-profile, workstation solution that offers flexibility for multiple network configurations. Complete with colour coded ICONs and shutters to protect the outlet when not in use.	AFLSMB2	Each
Surface Mount Box 4 Port		AFL's Surface Mount Boxes are a low-profile, workstation solution that offers flexibility for multiple network configurations. Complete with colour coded ICONs and shutters to protect the outlet when not in use.	AFLSMB4	Each
Surface Mount Box 6 Port		AFL's Surface Mount Boxes are a low-profile, workstation solution that offers flexibility for multiple network configurations. Complete with colour coded ICONs and shutters to protect the outlet when not in use.	AFLSMB6	Each
MUTO-6/12 Port		The MUTO box has the flexibility of being configured with either 6 or 12 ports and provides extra cable management room within the box.	AFLSMB6-MUTO	Each

## Tools

PRODUCT		DESCRIPTION	PART NUMBER	PACKAGING
RJ45 Termination Tool		Termination tool used on all categories of Keystone Outlets. Terminates and trims all 8 wires (4 pairs) at once. (Note: Cannot be used on Clipsal mount outlets or side entry outlets).	AFLRJTOOL	Each
Patchcord Tracer Tool		This tool lights up the ends of a patchcord for easy port identification.	AFLPCTRACER	Each
Impact Punch Down Tool		Impact Punch Down Tool for Type 110 Connector	AFLPA3572	Each
		Replacement Bit for AFLPA3572	AFLPA4572	Each

## Cable Management

PRODUCT		DESCRIPTION	PART NUMBER	PACKAGING
Horizontal Patchcord Minder 1RU		One rack unit patchcord minder with 4 large clips that rotate into both horizontal and vertical locations.	FRE-1RU-PCMNDR	Each
Patchcord Minder 1RU Finger Style		One rack unit patchcord minder with flexible fingers and clip on cover.	AFLCM1RU	Each
Patchcord Minder 2RU Finger Style		Two rack unit patchcord minder with flexible fingers and clip on cover.	AFLCM2RU	Each
Patchcord Minder 1RU Brush Style		One rack unit brush strip that assists with patchcord management.	AFLCMBRUSH	Each

## Bezels

PRODUCT		DESCRIPTION		
Keystone/ Clipsal Bezels		These Bezels are used for mounting keystone jacks into Clipsal faceplates.		
			ORDERING INFORMATION	PACKAGING
		AFLBEZEL-WH	Keystone to Clipsal Bezel, White	Bag of 10
		AFLBEZEL-BK	Keystone to Clipsal Bezel, Black	Bag of 10
		AFLBEZEL-PK	Keystone to Clipsal Bezel, Pink	Bag of 10
		AFLBEZEL-BU	Keystone to Clipsal Bezel, Blue	Bag of 10
		AFLBEZEL-GY	Keystone to Clipsal Bezel, Grey	Bag of 10
AFLBEZEL-RD	Keystone to Clipsal Bezel, Red	Bag of 10		

## Unloaded Panels

PRODUCT		DESCRIPTION	PART NUMBER	PACKAGING
Patch Panel 24 Port Unloaded		24 port keystone patch panel with rear cable management. This panel can be used with any category of AFL outlets.	AFL24UL-BK	Each
Patch Panel 24 Port Unloaded Angled		24 port keystone patch panel with rear cable management. This angled panel can be used with any category of AFL outlets. Provides improved cable management with the patchcords being directed to the side of the cabinet.	AFL24ULV-BK	Each
Velocity 32 Port Muto Unloaded		32 Port MUTO providing flexibility in horizontal cabling systems. This can be used with any category of AFL outlets.	VEL-MUTO32	Each

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