AEM Testing Innovation





Test Limits

TestPro CV 100 &
Network Service Assistant

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1 Introduction

AEM TestPro CV100 and Network Service Assistant include a large number of built-in test limits depending on the type of cable and connector, type of standardization body, or application specific requirements. This document provides an overview of the built-in test limits. Besides these limits, a user can also create a custom limit for their own requirements and load onto the tester.

1.1 Copper Test Limits

1.1.1 TIA Channel, Permanent Link and MPTL Limits

Limit name	Test Adapters	Comments
TIA-568.2-E Cat 3 Channel	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	Legacy standard, uses two pairs
TIA-568.2-E Cat 3 Permanent Link	- AD-CAT8.1-PLE - AD-M12-D - AD-M12-X	
TIA-568.2-E Cat 5e Channel (+)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory test parameters, and resistance unbalance. Suitable where cable will be used for PoE
TIA-568.2-E Cat 5e Permanent Link (+)	- AD-CAT8.1-PLE - AD-M12-D - AD-M12-X	All mandatory test parameters, and resistance unbalance. Suitable where cable will be used for PoE
TIA-568.2-E Cat 5e MPTL (+)	- AD-CAT8.1-PLE - AD-M12-D - AD-M12-X - AD-5e-PCORD - AD-6-PCORD - AD-6A-PCORD	All mandatory test parameters, and resistance unbalance. Suitable where cable will be used for PoE
TIA-568.2-E Cat 5e Channel	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	Mandatory test parameters as per CAT5e standard
TIA-568.2-E Cat 5e Permanent Link	- AD-CAT8.1-PLE - AD-M12-D - AD-M12-X	Mandatory test parameters as per CAT5e standard
TIA-568.2-E Cat 5e MPTL	- AD-CAT8.1-PLE - AD-M12-D - AD-M12-X - AD-5e-PCORD - AD-6-PCORD	Mandatory test parameters as per CAT5e standard

	- AD-6A-PCORD	
TIA-568.2-E Cat 6 Channel (++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory CAT 6 test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-568.2-E Cat 6 Permanent Link (++)	- AD-CAT8.1-PLE - AD-M12-X	All mandatory CAT 6 test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-568.2-E Cat 6 Channel (+)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory test parameters, and resistance unbalance. Suitable where cable will be used for PoE
TIA-568.2-E Cat 6 Permanent Link (+)	- AD-CAT8.1-PLE - AD-M12-X	All mandatory test parameters, and resistance unbalance. Suitable where cable will be used for PoE
TIA-568.2-E Cat 6 MPTL(+)	- AD-CAT8.1-PLE - AD-M12-X - AD-6-PCORD - AD-6A-PCORD	All mandatory test parameters, and resistance unbalance. Suitable where cable will be used for PoE
TIA-568.2-E Cat 6 Channel	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	Mandatory test parameters as per CAT 6 standard
TIA-568.2-E Cat 6 Permanent Link	- AD-CAT8.1-PLE - AD-M12-X	Mandatory test parameters as per CAT 6 standard
TIA-568.2-E Cat 6 MPTL	- AD-CAT8.1-PLE - AD-M12-X - AD-6-PCORD - AD-6A-PCORD	Mandatory test parameters as per CAT 6 standard
TIA-568.2-E Cat 6A Channel (++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory CAT 6A test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.

TIA-568.2-E Cat 6A Permanent Link (++)	- AD-CAT8.1-PLE - AD-M12-X	All mandatory CAT 6A test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-568.2-E Cat 6A Channel (+)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory test parameters, and resistance unbalance. Suitable where cable will be used for PoE
TIA-568.2-E Cat 6A Permanent Link (+)	- AD-CAT8.1-PLE - AD-M12-X	All mandatory test parameters, and resistance unbalance. Suitable where cable will be used for PoE
TIA-568.2-E Cat 6A MPTL (+)	- AD-CAT8.1-PLE - AD-M12-X - AD-6A-PCORD	All mandatory test parameters, and resistance unbalance. Suitable where cable will be used for PoE
TIA-568.2-E Cat 6A Channel	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	Mandatory test parameters as per CAT 6A standard
TIA-568.2-E Cat 6A Permanent Link	- AD-CAT8.1-PLE - AD-M12-X	Mandatory test parameters as per CAT 6A standard
TIA-568.2-E Cat 6A MPTL	- AD-CAT8.1-PLE - AD-M12-X - AD-6A-PCORD	Mandatory test parameters as per CAT 6A standard
TIA-568.2-E Cat 8 Channel (++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory CAT 8 test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-568.2-E Cat 8 Permanent Link (++)	- AD-CAT8.1-PLE	All mandatory CAT 8 test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-568.2-E Cat 8 Channel (+)	- AD-CAT8.1-CH - AD-NET-CABLE	All mandatory test parameters, and resistance

	- AD-M12-D - AD-M12-X	unbalance. Suitable where cable will be used for PoE
TIA-568.2-E Cat 8 Permanent Link (+)	- AD-CAT8.1-PLE	All mandatory test parameters, and resistance unbalance. Suitable where cable will be used for PoE
TIA-568.2-E Cat 8 Channel	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	Mandatory test parameters as per CAT 8 standard
TIA-568.2-E Cat 8 Permanent Link	- AD-CAT8.1-PLE	Mandatory test parameters as per CAT 8 standard

1.1.2 TIA Patch Cord Limits

Limit name	Test Adapters	Comments
00.50m TIA Cat5e PatchCord 01.00m TIA Cat5e PatchCord 01.50m TIA Cat5e PatchCord 02.00m TIA Cat5e PatchCord 03.00m TIA Cat5e PatchCord 05.00m TIA Cat5e PatchCord 10.00m TIA Cat5e PatchCord	- AD-5e-PCORD	CAT 5e patch-cord test. Use test limits based on the length of patch-cord being tested.
00.15m TIA Cat6 PatchCord 00.30m TIA Cat6 PatchCord 00.50m TIA Cat6 PatchCord 01.00m TIA Cat6 PatchCord 01.50m TIA Cat6 PatchCord 02.00m TIA Cat6 PatchCord 03.00m TIA Cat6 PatchCord 05.00m TIA Cat6 PatchCord 10.00m TIA Cat6 PatchCord 15.00m TIA Cat6 PatchCord 20.00m TIA Cat6 PatchCord 30.00m TIA Cat6 PatchCord	- AD-6-PCORD	CAT 6 patch-cord test. Use test limits based on the length of patch-cord being tested.
00.13m TIA Cat6 28AWG PatchCord 00.30m TIA Cat6 28AWG PatchCord 00.50m TIA Cat6 28AWG PatchCord 01.00m TIA Cat6 28AWG PatchCord 01.50m TIA Cat6 28AWG PatchCord 02.00m TIA Cat6 28AWG PatchCord	- AD-6-PCORD	CAT 6 patch-cord test for thinner 28 AWG cords. Use test limits based on the length of patch-cord being tested.

02.50m TIA Cat6 28AWG PatchCord 03.00m TIA Cat6 28AWG PatchCord 05.00m TIA Cat6 28AWG PatchCord 10.00m TIA Cat6 28AWG PatchCord 15.00m TIA Cat6 28AWG PatchCord 20.00m TIA Cat6 28AWG PatchCord		
00.15m TIA Cat6A PatchCord 00.30m TIA Cat6A PatchCord 00.50m TIA Cat6A PatchCord 01.00m TIA Cat6A PatchCord 01.50m TIA Cat6A PatchCord 02.00m TIA Cat6A PatchCord 03.00m TIA Cat6A PatchCord 05.00m TIA Cat6A PatchCord 10.00m TIA Cat6A PatchCord 15.00m TIA Cat6A PatchCord 30.00m TIA Cat6A PatchCord 60.00m TIA Cat6A PatchCord 90.00m TIA Cat6A PatchCord	- AD-6A-PCORD	CAT 6A patch-cord test. Use test limits based on the length of patch-cord being tested.
00.13m TIA Cat6A 28AWG PatchCord 00.30m TIA Cat6A 28AWG PatchCord 00.50m TIA Cat6A 28AWG PatchCord 01.00m TIA Cat6A 28AWG PatchCord 01.50m TIA Cat6A 28AWG PatchCord 02.00m TIA Cat6A 28AWG PatchCord 02.50m TIA Cat6A 28AWG PatchCord 03.00m TIA Cat6A 28AWG PatchCord 05.00m TIA Cat6A 28AWG PatchCord 10.00m TIA Cat6A 28AWG PatchCord 15.00m TIA Cat6A 28AWG PatchCord	- AD-6A-PCORD	CAT 6A patch-cord test for thinner 28 AWG cords. Use test limits based on the length of patch-cord being tested.

1.1.3 TIA Single Pair Ethernet Limits

Limit name	Test Adapters	Comments
TIA-568.5 SP1-1000 CH STP	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Shielded SPE cabling channel standard for supporting 10BASE-T1L up to 1000m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.
TIA-568.5 SP1-1000 PL STP	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Shielded SPE cabling Permanent Link standard for supporting 10BASE-T1L up to 1000m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.
TIA-568.5 SP1-1000 CH UTP	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Unshielded SPE cabling channel standard for supporting 10BASE-T1L up to 1000m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.
TIA-568.5 SP1-1000 PL UTP	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Unshielded SPE cabling Permanent Link standard for supporting 10BASE-T1L up to 1000m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.
TIA-568.5 SP1-400 CH STP	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Shielded SPE cabling channel standard for supporting 10BASE-T1L up to 400m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.

TIA-568.5 SP1-400 PL STP	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Shielded SPE cabling Permanent Link standard for supporting 10BASE-T1L up to 400m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.
TIA-568.5 SP1-400 CH UTP	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Unshielded SPE cabling channel standard for supporting 10BASE-T1L up to 400m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.
TIA-568.5 SP1-400 PL UTP	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Unshielded SPE cabling Permanent Link standard for supporting 10BASE-T1L up to 400m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.

1.1.4 TIA Coax Limits

Limit name	Test Adapters	Comments
TIA-568.4-D Coax 1GHz RG11 dual	AD-COAX-TYPE-F	
TIA-568.4-D Coax 1GHz RG11 quad	AD-COAX-TYPE-F	
TIA-568.4-D Coax 1GHz RG11 tri		
TIA-568.4-D Coax 1GHz RG6 dual		
TIA-568.4-D Coax 1GHz RG6 quad		
TIA-568.4-D Coax 1GHz RG6 tri		
TIA-568.4-D Coax 3GHz RG11 dual		
TIA-568.4-D Coax 3GHz RG11 quad		

TIA-568.4-D Coax 3GHz RG11 tri		
TIA-568.4-D Coax 3GHz RG6 dual		
TIA-568.4-D Coax 3GHz RG6 quad		
TIA-568.4-D Coax 3GHz RG6 tri		

1.1.5 TIA Industrial Cabling Limits

Limit name	Test Adapters	Comments
TIA-1005-A Cat 5e Ch STP (++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory CAT 5e test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-1005-A Cat 5e Ch STP	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	Mandatory test parameters as per CAT5e standard
TIA-1005-A Cat 5e Ch UTP E1(++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory CAT 5e test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-1005-A Cat 5e Ch UTP E1	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	Mandatory test parameters as per CAT5e standard
TIA-1005-A Cat 5e Ch UTP E2(++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory CAT 5e test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-1005-A Cat 5e Ch UTP E2	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	Mandatory test parameters as per CAT5e standard

TIA-1005-A Cat 5e Ch UTP E3(++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory CAT 5e test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-1005-A Cat 5e Ch UTP E3	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	Mandatory test parameters as per CAT5e standard
TIA-1005-A Cat 6 Ch STP (++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory CAT 6 test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-1005-A Cat 6 Ch STP	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	Mandatory test parameters as per CAT6 standard
TIA-1005-A Cat 6 Ch UTP E1(++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory CAT 6 test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-1005-A Cat 6 Ch UTP E1	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	Mandatory test parameters as per CAT6 standard
TIA-1005-A Cat 6 Ch UTP E2(++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory CAT 6 test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-1005-A Cat 6 Ch UTP E2	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D	Mandatory test parameters as per CAT6 standard

	- AD-M12-X	
TIA-1005-A Cat 6 Ch UTP E3(++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory CAT 6 test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-1005-A Cat 6 Ch UTP E3	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	Mandatory test parameters as per CAT6 standard
TIA-1005-A Cat 6A Ch STP (++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory CAT 6A test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-1005-A Cat 6A Ch STP	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	Mandatory test parameters as per CAT6A standard
TIA-1005-A Cat 6A Ch UTP E1(++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory CAT 6A test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-1005-A Cat 6A Ch UTP E1	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	Mandatory test parameters as per CAT6A standard
TIA-1005-A Cat 6A Ch UTP E2(++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory CAT 6A test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-1005-A Cat 6A Ch UTP E2	- AD-CAT8.1-CH - AD-NET-CABLE	Mandatory test parameters as per CAT6A standard

	- AD-M12-D AD-M12-X	
TIA-1005-A Cat 6A Ch UTP E3(++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory CAT 6A test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
TIA-1005-A Cat 6A Ch UTP E3	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	Mandatory test parameters as per CAT6A standard

1.1.6 TIA Raw Cable Limits

Limit name	Test Adapters	Comments
TIA-568.2-E Cat 5e 100m	AD-4P-BAREWIRE-TB	
TIA-568.2-E Cat 5e 305m	AD-4P-BAREWIRE-TB	
TIA-568.2-E Cat 6 100m	AD-4P-BAREWIRE-TB	
TIA-568.2-E Cat 6 305m	AD-4P-BAREWIRE-TB	
TIA-568.2-E Cat 6A 100m	AD-4P-BAREWIRE-TB	
TIA-568.2-E Cat 6A 305m	AD-4P-BAREWIRE-TB	

1.1.7 ISO/IEC Channel Limits

Limit name	Test Adapters	Comments
ISO IEC 11801-1 Class C Channel	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	
ISO IEC 11801-1 Class D Channel (++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	All mandatory Class D test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
ISO IEC 11801-1 Class D Channel	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-D - AD-M12-X	Mandatory test parameters as per Class D standard
ISO IEC 11801-1 Class E Channel (++)	- AD-CAT8.1-CH - AD-NET-CABLE	All mandatory Class E test parameters, plus resistance

	- AD-M12-X	unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
ISO IEC 11801-1 Class E Channel	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-X	Mandatory test parameters as per Class E standard
ISO IEC 11801-1 Class EA Channel (++)	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-X	All mandatory Class EA test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
ISO IEC 11801-1 Class EA Channel	- AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-X	Mandatory test parameters as per Class EA standard
ISO IEC 11801-1 Class F Channel (++)	- AD-8.2-TERACH - AD-8.2-GG45CH	All mandatory Class F test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
ISO IEC 11801-1 Class F Channel	- AD-8.2-TERACH - AD-8.2-GG45CH	Mandatory test parameters as per Class F standard
ISO IEC 11801-1 Class FA Channel (++)	- AD-8.2-TERACH - AD-8.2-GG45CH	All mandatory Class FA test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
ISO IEC 11801-1 Class FA Channel	- AD-8.2-TERACH - AD-8.2-GG45CH	Mandatory test parameters as per Class FA standard
ISO IEC 11801-1 Class I Channel (++)	- AD-8.2-TERACH - AD-8.2-GG45CH - AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-X	All mandatory Class I test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need

		adequate external noise immunity.
ISO IEC 11801-1 Class I Channel	- AD-8.2-TERACH - AD-8.2-GG45CH - AD-CAT8.1-CH - AD-NET-CABLE - AD-M12-X	Mandatory test parameters as per Class I standard
ISO IEC 11801-1 Class II Channel (++)	- AD-8.2-TERACH - AD-8.2-GG45CH	All mandatory Class II test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
ISO IEC 11801-1 Class II Channel	- AD-8.2-TERACH - AD-8.2-GG45CH	Mandatory test parameters as per Class II standard

1.1.8 ISO/IEC Permanent Link Limits

Limit name	Test Adapters	Comments
ISO IEC 11801-1 Class C PL1 PL2 CP1	- AD-CAT8.1-PLE - AD-M12-X - AD-M12-D	
ISO IEC 11801-1 Class C PL3	- AD-CAT8.1-PLE - AD-M12-X - AD-M12-D	
ISO IEC 11801-1 Class D Link PL1 PL2 CP1 (+)	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class D test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-1 Class D Link PL1 PL2 CP1 (++)	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class D test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
ISO IEC 11801-1 Class D Link PL1 PL2 CP1	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class D test parameters
ISO IEC 11801-1 Class D Link PL3 (+)	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class D test parameters, plus resistance unbalance. Recommended

		for new installations where cable will be used for PoE.
ISO IEC 11801-1 Class D Link PL3 (++)	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class D test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
ISO IEC 11801-1 Class D Link PL3	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class D test parameters
ISO IEC 11801-1 Class E Link PL1 PL2 CP1 (+)	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class E test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-1 Class E Link PL1 PL2 CP1 (++)	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class E test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
ISO IEC 11801-1 Class E Link PL1 PL2 CP1	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class E test parameters
ISO IEC 11801-1 Class E Link PL3 (+)	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class E test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-1 Class E Link PL3 (++)	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class E test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
ISO IEC 11801-1 Class E Link PL3	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class E test parameters
ISO IEC 11801-1 Class EA Link PL1 PL2 CP1 (+)	- AD-CAT8.1-PLE - AD-M12-X -	All mandatory Class EA test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.

ISO IEC 11801-1 Class EA Link PL1 PL2 CP1 (++)	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class EA test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
ISO IEC 11801-1 Class EA Link PL1 PL2 CP1	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class EA test parameters
ISO IEC 11801-1 Class EA Link PL3 (+)	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class EA test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-1 Class EA Link PL3 (++)	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class EA test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
ISO IEC 11801-1 Class EA Link PL3	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class EA test parameters
ISO IEC 11801-1 Class F Link PL1 PL2 CP1 (+)	- AD-8.2-TERAPL - AD-8.2-GG45PL	All mandatory Class F test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-1 Class F Link PL1 PL2 CP1	- AD-8.2-TERAPL - AD-8.2-GG45PL	All mandatory Class F test parameters.
ISO IEC 11801-1 Class F Link PL3 (+)	- AD-8.2-TERAPL - AD-8.2-GG45PL	All mandatory Class F test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-1 Class F Link PL3	- AD-8.2-TERAPL - AD-8.2-GG45PL	All mandatory Class F test parameters.
ISO IEC 11801-1 Class FA Link PL1 PL2 CP1 (+)	- AD-8.2-TERAPL - AD-8.2-GG45PL	All mandatory Class FA test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-1 Class FA Link PL1 PL2 CP1	- AD-8.2-TERAPL - AD-8.2-GG45PL	All mandatory Class FA test parameters.

ISO IEC 11801-1 Class FA Link PL3 (+)	- AD-8.2-TERAPL - AD-8.2-GG45PL	All mandatory Class FA test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-1 Class FA Link PL3	- AD-8.2-TERAPL - AD-8.2-GG45PL	All mandatory Class FA test parameters.
ISO IEC 11801-1 Class I Permanent Link (++)	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class EA test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
ISO IEC 11801-1 Class I Permanent Link	- AD-CAT8.1-PLE - AD-M12-X	All mandatory Class EA test parameters
ISO IEC 11801-1 Class II Permanent Link (++)	- AD-8.2-TERAPL AD-8.2-GG45PL	All mandatory Class II test parameters, plus resistance unbalance, and TCL/ELTCTL. Recommended for new installations where cable will be used for PoE, and need adequate external noise immunity.
ISO IEC 11801-1 Class II Permanent Link	- AD-8.2-TERAPL AD-8.2-GG45PL	Mandatory test parameters as per Class II standard

1.1.9 ISO/IEC BCT Limits

Below are the limits for BCT (Broadcast and Communication technologies)

Limit name	Test Adapters	Comments
ISO IEC 11801-1 Class BCT-B-L Channel	- AD-8.2-TERACH - AD-8.2-GG45CH - AD-M12-X	Up to 11.8m BCT channel test parameters
ISO IEC 11801-1 Class BCT-B-L Permanent Link	- AD-8.2-TERAPL - AD-8.2-GG45PL - AD-M12-X	Up to 11.8m BCT permanent link test parameters
ISO IEC 11801-1 Class BCT-B-M Channel	- AD-8.2-TERACH - AD-8.2-GG45CH - AD-M12-X	Up to 25m BCT channel test parameters
ISO IEC 11801-1 Class BCT-B-M Permanent Link	- AD-8.2-TERAPL - AD-8.2-GG45PL - AD-M12-X	Up to 25m BCT permanent link test parameters

1.1.10 ISO/IEC Direct Attach Limits

Limit name	Test Adapters	Comments
ISO IEC 11801-9907 Class C Direct Attach	- AD-5E-PCORD - AD-6-PCORD - AD-6A-PCORD - AD-M12-D - AD-M12-X - AD-CAT8.1-CH	All mandatory Class C test parameters.
ISO IEC 11801-9907 Class D Direct Attach	- AD-5E-PCORD - AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class D test parameters.
ISO IEC 11801-9907 Class D Direct Attach (+)	- AD-5E-PCORD - AD-6-PCORD - AD-6A-PCORD - AD-M12-D - AD-M12-X - AD-CAT8.1-CH	All mandatory Class D test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-9907 Class E Direct Attach	- AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class E test parameters.
ISO IEC 11801-9907 Class E Direct Attach (+)	- AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class E test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-9907 Class EA Direct Attach	- AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class EA test parameters.
ISO IEC 11801-9907 Class EA Direct Attach (+)	- AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class EA test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-9907 Class F Direct Attach	- AD-8.2-TERACH - AD-8.2-GG45CH	All mandatory Class F test parameters.
ISO IEC 11801-9907 Class F Direct Attach (+)	- AD-8.2-TERACH - AD-8.2-GG45CH	All mandatory Class F test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-9907 Class FA Direct Attach	- AD-8.2-TERACH - AD-8.2-GG45CH	All mandatory Class FA test parameters.
ISO IEC 11801-9907 Class FA Direct Attach (+)	- AD-8.2-TERACH - AD-8.2-GG45CH	All mandatory Class FA test parameters, plus resistance

		unbalance. Recommended for new installations where cable will be used for PoE.

1.1.11 ISO/IEC End-to-End Link Limits

Limit name	Test Adapters	Comments
ISO IEC 11801-3 E2E Class D STP PoE	- AD-5E-PCORD - AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class D test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-3 E2E Class D STP	- AD-5E-PCORD - AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class D test parameters.
ISO IEC 11801-3 E2E Class D UTP E1 PoE	- AD-5E-PCORD - AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class D test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-3 E2E Class D UTP E1	- AD-5E-PCORD - AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class D test parameters.
ISO IEC 11801-3 E2E Class D UTP E2 PoE	- AD-5E-PCORD - AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class D test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-3 E2E Class D UTP E2	- AD-5E-PCORD - AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class D test parameters.
ISO IEC 11801-3 E2E Class D UTP E3 PoE	- AD-5E-PCORD - AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class D test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-3 E2E Class D UTP E3	- AD-5E-PCORD - AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class D test parameters.

ISO IEC 11801-3 E2E Class E STP PoE	- AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class E test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-3 E2E Class E STP	- AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class E test parameters.
ISO IEC 11801-3 E2E Class E UTP E1 PoE	- AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class E test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-3 E2E Class E UTP E1	- AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class E test parameters.
ISO IEC 11801-3 E2E Class E UTP E2 PoE	- AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class E test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-3 E2E Class E UTP E2	- AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class E test parameters.
ISO IEC 11801-3 E2E Class E UTP E3 PoE	- AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class E test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-3 E2E Class E UTP E3	- AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class E test parameters.
ISO IEC 11801-3 E2E Class EA STP PoE	- AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class EA test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-3 E2E Class EA STP	- AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class EA test parameters.
ISO IEC 11801-3 E2E Class EA UTP E1 PoE	- AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class EA test parameters, plus resistance unbalance. Recommended

		for new installations where cable will be used for PoE.
ISO IEC 11801-3 E2E Class EA UTP E1	- AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class EA test parameters.
ISO IEC 11801-3 E2E Class EA UTP E2 PoE	- AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class EA test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-3 E2E Class EA UTP E2	- AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class EA test parameters.
ISO IEC 11801-3 E2E Class EA UTP E3 PoE	- AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class EA test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-3 E2E Class EA UTP E3	- AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class EA test parameters.

1.1.12 ISO/IEC MPTL Limits

Below is the list of ISO/IEC Modular Plug Terminated Link (MPTL) limits.

Limit name	Test Adapters	Comments
ISO IEC 11801-9910 Class D MPTL PL1 PL2 CP1 (+)	- AD-5E-PCORD - AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-PLE	All mandatory Class D test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-9910 Class D MPTL PL1 PL2 CP1	- AD-5E-PCORD - AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class D test parameters.
ISO IEC 11801-9910 Class D MPTL PL3 (+)	- AD-5E-PCORD - AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-PLE	All mandatory Class D test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-9910 Class D MPTL PL3	- AD-5E-PCORD - AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class D test parameters.

ISO IEC 11801-9910 Class E MPTL PL1 PL2 CP1 (+)	- AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-PLE	All mandatory Class E test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-9910 Class E MPTL PL1 PL2 CP1	- AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class E test parameters.
ISO IEC 11801-9910 Class E MPTL PL3 (+)	- AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-PLE	All mandatory ClassE test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-9910 Class E MPTL PL3	- AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class E test parameters.
ISO IEC 11801-9910 Class EA MPTL PL1 PL2 CP1 (+)	- AD-6A-PCORD - AD-M12-X - AD-CAT8.1-PLE	All mandatory Class EA test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-9910 Class EA MPTL PL1 PL2 CP1	- AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class EA test parameters.
ISO IEC 11801-9910 Class EA MPTL PL3 (+)	- AD-6A-PCORD - AD-M12-X - AD-CAT8.1-PLE	All mandatory Class EA test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-9910 Class EA MPTL PL3	- AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class EA test parameters.
ISO IEC 11801-9910 Class F MPTL PL1 PL2 CP1 (+)	- AD-8.2-TERACH - AD-8.2-TERAPL - AD-8.2-GG45CH - AD-8.2-GG45PL	All mandatory Class F test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-9910 Class F MPTL PL1 PL2 CP1	- AD-8.2-TERACH - AD-8.2-TERAPL - AD-8.2-GG45CH - AD-8.2-GG45PL	All mandatory Class F test parameters.
ISO IEC 11801-9910 Class F MPTL PL3 (+)	- AD-8.2-TERACH - AD-8.2-TERAPL - AD-8.2-GG45CH - AD-8.2-GG45PL	All mandatory Class F test parameters, plus resistance unbalance. Recommended

		for new installations where cable will be used for PoE.
ISO IEC 11801-9910 Class F MPTL PL3	- AD-8.2-TERACH - AD-8.2-TERAPL - AD-8.2-GG45CH - AD-8.2-GG45PL	All mandatory Class F test parameters.
ISO IEC 11801-9910 Class FA MPTL PL1 PL2 CP1 (+)	- AD-8.2-TERACH - AD-8.2-TERAPL - AD-8.2-GG45CH - AD-8.2-GG45PL	All mandatory Class FA test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-9910 Class FA MPTL PL1 PL2 CP1	- AD-8.2-TERACH - AD-8.2-TERAPL - AD-8.2-GG45CH - AD-8.2-GG45PL	All mandatory Class FA test parameters.
ISO IEC 11801-9910 Class FA MPTL PL3 (+)	- AD-8.2-TERACH - AD-8.2-TERAPL - AD-8.2-GG45CH - AD-8.2-GG45PL	All mandatory Class FA test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-9910 Class FA MPTL PL3	- AD-8.2-TERACH - AD-8.2-TERAPL - AD-8.2-GG45CH - AD-8.2-GG45PL	All mandatory Class FA test parameters.
ISO IEC 11801-9910 Class I MPTL (++)	- AD-6A-PCORD - AD-M12-X - AD-CAT8.1-PLE	All mandatory Class I test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-9910 Class I MPTL	- AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class I test parameters.
ISO IEC 11801-9910 Class II MPTL (++)	- AD-8.2-TERACH - AD-8.2-TERAPL - AD-8.2-GG45CH - AD-8.2-GG45PL	All mandatory Class II test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.
ISO IEC 11801-9910 Class II MPTL	- AD-8.2-TERACH - AD-8.2-TERAPL - AD-8.2-GG45CH - AD-8.2-GG45PL	All mandatory Class II test parameters.
ISO IEC 11801-3 E2E Class D UTP E1 PoE	- AD-5E-PCORD - AD-6-PCORD - AD-6A-PCORD - AD-M12-X - AD-CAT8.1-CH	All mandatory Class D test parameters, plus resistance unbalance. Recommended for new installations where cable will be used for PoE.

1.1.13 ISO/IEC Patch Cord Limits

Limit name	Test Adapters	Comments
00.50m ISO Cat5e PatchCord 01.00m ISO Cat5e PatchCord 01.50m ISO Cat5e PatchCord 02.00m ISO Cat5e PatchCord 03.00m ISO Cat5e PatchCord 05.00m ISO Cat5e PatchCord 10.00m ISO Cat5e PatchCord	- AD-5e-PCORD	CAT 5e patch-cord test. Use test limits based on the length of patch-cord being tested.
00.50m ISO Cat6 PatchCord 01.00m ISO Cat6 PatchCord 01.50m ISO Cat6 PatchCord 02.00m ISO Cat6 PatchCord 03.00m ISO Cat6 PatchCord 05.00m ISO Cat6 PatchCord 10.00m ISO Cat6 PatchCord	- AD-6-PCORD	CAT 6 patch-cord test. Use test limits based on the length of patch-cord being tested.
00.50m ISO Cat6A PatchCord 01.00m ISO Cat6A PatchCord 01.50m ISO Cat6A PatchCord 02.00m ISO Cat6A PatchCord 03.00m ISO Cat6A PatchCord 05.00m ISO Cat6A PatchCord 10.00m ISO Cat6A PatchCord 15.00m ISO Cat6A PatchCord 30.00m ISO Cat6A PatchCord 60.00m ISO Cat6A PatchCord 90.00m ISO Cat6A PatchCord	- AD-6A-PCORD	CAT 6A patch-cord test. Use test limits based on the length of patch-cord being tested.
01.00m ISO Cat7 PatchCord 02.00m ISO Cat7 PatchCord 03.00m ISO Cat7 PatchCord 05.00m ISO Cat7 PatchCord 10.00m ISO Cat7 PatchCord	- AD-8.2-GG45CH - AD-8.2-GG45PL	CAT 7 patch-cord test. Use test limits based on the length of patch-cord being tested.
01.00m ISO Cat7A PatchCord 02.00m ISO Cat7A PatchCord 03.00m ISO Cat7A PatchCord 05.00m ISO Cat7A PatchCord 10.00m ISO Cat7A PatchCord	- AD-8.2-GG45CH - AD-8.2-GG45PL	CAT 7A patch-cord test. Use test limits based on the length of patch-cord being tested.
02.00m ISO Class II PatchCord 05.00m ISO Class II PatchCord 10.00m ISO Class II PatchCord 30.00m ISO Class II PatchCord	- AD-8.2-GG45CH - AD-8.2-GG45PL	Class II patch-cord test. Use test limits based on the length of patch-cord being tested.

1.1.14 ISO/IEC Raw Cable Limits

Please consult AEM for right configuration for component testing. In addition to TestPro, AEM's MMVNA is a good option for manufacturing test applications.

Limit name	Test Adapters	Comments
IEC 61156-5 Cat6 100m	- AD-4P-BAREWIRE-TB	CAT 6 raw cable test.
IEC 61156-5 Cat6A 100m	- AD-4P-BAREWIRE-TB	CAT 6A raw cable test.
IEC 61156-5 Cat7 100m	- AD-VNA	CAT 7 raw cable test.
ISO Cable Cat6A 110m	- AD-4P-BAREWIRE-TB	
ISO Cable Cat6A 310m	- AD-4P-BAREWIRE-TB	
ISO Cable Cat6A 510m	- AD-4P-BAREWIRE-TB	

1.1.15 ISO/IEC Single Pair Ethernet Limits

Limit name	Test Adapters	Comments
ISO/IEC 11801-1 2017 AMD1 T1-A-1000 CH STP	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Shielded SPE cabling channel standard for supporting 10BASE-T1L up to 1000m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.
ISO/IEC 11801-1 2017 AMD1 T1-A-1000 CH UTP E1	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Unshielded SPE cabling channel standard for supporting 10BASE-T1L up to 1000m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.
ISO/IEC 11801-1 2017 AMD1 T1-A-1000 CH UTP E2	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Unshielded SPE cabling channel standard for supporting 10BASE-T1L up to 1000m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.

ISO/IEC 11801-1 2017 AMD1 T1-A-1000 CH UTP E3	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Unshielded SPE cabling channel standard for supporting 10BASE-T1L up to 1000m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.
ISO/IEC 11801-1 2017 AMD1 T1-A-1000 PL STP	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Shielded SPE cabling Permanent Link standard for supporting 10BASE-T1L up to 1000m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.
ISO/IEC 11801-1 2017 AMD1 T1-A-1000 PL UTP E1	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Unshielded SPE cabling Permanent Link standard for supporting 10BASE-T1L up to 1000m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.
ISO/IEC 11801-1 2017 AMD1 T1-A-1000 PL UTP E2	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Unshielded SPE cabling Permanent Link standard for supporting 10BASE-T1L up to 1000m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.
ISO/IEC 11801-1 2017 AMD1 T1-A-1000 PL UTP E3	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Unshielded SPE cabling Permanent Link standard for supporting 10BASE-T1L up to 1000m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.
ISO/IEC 11801-3 AMD1 T1-A-1000 CH STP	- AD-SPE-IEC 63171-1	Shielded SPE cabling channel standard for

	- AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	supporting 10BASE-T1L up to 1000m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.
ISO/IEC 11801-3 AMD1 T1-A-1000 CH UTP E1	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Unshielded SPE cabling channel standard for supporting 10BASE-T1L up to 1000m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.
ISO/IEC 11801-3 AMD1 T1-A-1000 CH UTP E2	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Unshielded SPE cabling channel standard for supporting 10BASE-T1L up to 1000m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.
ISO/IEC 11801-3 AMD1 T1-A-1000 CH UTP E3	- AD-SPE-IEC 63171-1 - AD-SPE-IEC 63171-2 - AD-SPE-IEC 63171-6 - AD_SPE-BAREWIRE-TB - AD-GG45-SPE	Unshielded SPE cabling channel standard for supporting 10BASE-T1L up to 1000m. Other test adapters apart from those listed here may also be used. Contact AEM for further information.

1.1.16 Fiber Certification Test Limits

Limit Name	Adapter Type	Fiber Type
TIA-568-C.3 MultiMode STD Grade	AD-MM	OM1
TIA-568-C.3 MultiMode STD Grade	AD-MM	OM2
TIA-568-C.3 MultiMode STD Grade	AD-MM	OM3
TIA-568-C.3 MultiMode STD Grade	AD-MM	OM4
TIA-568-C.3 MultiMode STD Grade	AD-MM	OM5
TIA-568-C.3 MultiMode REF Grade	AD-MM	OM1
TIA-568-C.3 MultiMode REF Grade	AD-MM	OM2

TIA-568-C.3 MultiMode REF Grade	AD-MM	OM3
TIA-568-C.3 MultiMode REF Grade	AD-MM	OM4
TIA-568-C.3 MultiMode REF Grade	AD-MM	OM5
TIA-568.3-D MultiMode STD Grade	AD-MM	OM1
TIA-568.3-D MultiMode STD Grade	AD-MM	OM2
TIA-568.3-D MultiMode STD Grade	AD-MM	OM3
TIA-568.3-D MultiMode STD Grade	AD-MM	OM4
TIA-568.3-D MultiMode STD Grade	AD-MM	OM5
TIA-568.3-D MultiMode REF Grade	AD-MM	OM1
TIA-568.3-D MultiMode REF Grade	AD-MM	OM2
TIA-568.3-D MultiMode REF Grade	AD-MM	OM3
TIA-568.3-D MultiMode REF Grade	AD-MM	OM4
TIA-568.3-D MultiMode REF Grade	AD-MM	OM5
TIA-568.3-E MultiMode STD Grade	AD-MM	OM1
TIA-568.3-E MultiMode STD Grade	AD-MM	OM2
TIA-568.3-E MultiMode STD Grade	AD-MM	OM3
TIA-568.3-E MultiMode STD Grade	AD-MM	OM4
TIA-568.3-E MultiMode STD Grade	AD-MM	OM5
TIA-568.3-E MultiMode REF Grade	AD-MM	OM1
TIA-568.3-E MultiMode REF Grade	AD-MM	OM2
TIA-568.3-E MultiMode REF Grade	AD-MM	OM3
TIA-568.3-E MultiMode REF Grade	AD-MM	OM4
TIA-568.3-E MultiMode REF Grade	AD-MM	OM5
TIA-568-C.3 SingleMode ISP STD Grade	AD-SM	OS1
TIA-568-C.3 SingleMode ISP STD Grade	AD-SM	OS2
TIA-568-C.3 SingleMode OSP STD Grade	AD-SM	OS1
TIA-568-C.3 SingleMode OSP STD Grade	AD-SM	OS2
TIA-568-C.3 SingleMode Indoor-Outdoor STD Grade	AD-SM	OS1
TIA-568-C.3 SingleMode Indoor-Outdoor STD Grade	AD-SM	OS2
TIA-568-C.3 SingleMode ISP REF Grade	AD-SM	OS1
TIA-568-C.3 SingleMode ISP REF Grade	AD-SM	OS2
TIA-568-C.3 SingleMode OSP REF Grade	AD-SM	OS1
TIA-568-C.3 SingleMode OSP REF Grade	AD-SM	OS2
TIA-568-C.3 SingleMode Indoor-Outdoor REF Grade	AD-SM	OS1
TIA-568-C.3 SingleMode Indoor-Outdoor REF Grade	AD-SM	OS2
TIA-568.3-D SingleMode ISP STD Grade	AD-SM	OS1
TIA-568.3-D SingleMode ISP STD Grade	AD-SM	OS2
TIA-568.3-D SingleMode Indoor-Outdoor STD Grade	AD-SM	OS1
TIA-568.3-D SingleMode Indoor-Outdoor STD Grade	AD-SM	OS2
TIA-568.3-D SingleMode OSP STD Grade	AD-SM	OS2

TIA-568.3-D SingleMode ISP REF Grade	AD-SM	OS1
TIA-568.3-D SingleMode ISP REF Grade	AD-SM	OS2
TIA-568.3-D SingleMode Indoor-Outdoor REF Grade	AD-SM	OS1
TIA-568.3-D SingleMode Indoor-Outdoor REF Grade	AD-SM	OS2
TIA-568.3-D SingleMode OSP REF Grade	AD-SM	OS2
TIA-568.3-E SingleMode ISP STD Grade	AD-SM	OS1
TIA-568.3-E SingleMode ISP STD Grade	AD-SM	OS2
TIA-568.3-E SingleMode Indoor-Outdoor STD Grade	AD-SM	OS1
TIA-568.3-E SingleMode Indoor-Outdoor STD Grade	AD-SM	OS2
TIA-568.3-E SingleMode OSP STD Grade	AD-SM	OS2
TIA-568.3-E SingleMode ISP REF Grade	AD-SM	OS1
TIA-568.3-E SingleMode ISP REF Grade	AD-SM	OS2
TIA-568.3-E SingleMode Indoor-Outdoor REF Grade	AD-SM	OS1
TIA-568.3-E SingleMode Indoor-Outdoor REF Grade	AD-SM	OS2
TIA-568.3-E SingleMode OSP REF Grade	AD-SM	OS2
ISO/IEC 14763-3 Ed 2.1 CHANNEL	AD-MM	OM1
ISO/IEC 14763-3 Ed 2.1 CHANNEL	AD-MM	OM2
ISO/IEC 14763-3 Ed 2.1 CHANNEL	AD-MM	OM3
ISO/IEC 14763-3 Ed 2.1 CHANNEL	AD-MM	OM4
ISO/IEC 14763-3 Ed 2.1 CHANNEL	AD-MM	OM5
ISO/IEC 14763-3 Ed 2.1 PERMANENT LINK	AD-MM	OM1
ISO/IEC 14763-3 Ed 2.1 PERMANENT LINK	AD-MM	OM2
ISO/IEC 14763-3 Ed 2.1 PERMANENT LINK	AD-MM	OM3
ISO/IEC 14763-3 Ed 2.1 PERMANENT LINK	AD-MM	OM4
ISO/IEC 14763-3 Ed 2.1 PERMANENT LINK	AD-MM	OM5
ISO/IEC 14763-3 Ed 2.1 CHANNEL	AD-MM	OS1
ISO/IEC 14763-3 Ed 2.1 CHANNEL	AD-MM	OS2
ISO/IEC 14763-3 Ed 2.1 PERMANENT LINK	AD-MM	OS1
ISO/IEC 14763-3 Ed 2.1 PERMANENT LINK	AD-MM	OS2
ISO/IEC 14763-3 Ed 3.0 CHANNEL	AD-MM	OM1
ISO/IEC 14763-3 Ed 3.0 CHANNEL	AD-MM	OM2
ISO/IEC 14763-3 Ed 3.0 CHANNEL	AD-MM	OM3
ISO/IEC 14763-3 Ed 3.0 CHANNEL	AD-MM	OM4
ISO/IEC 14763-3 Ed 3.0 CHANNEL	AD-MM	OM5
ISO/IEC 14763-3 Ed 3.0 PERMANENT LINK	AD-MM	OM1
ISO/IEC 14763-3 Ed 3.0 PERMANENT LINK	AD-MM	OM2
ISO/IEC 14763-3 Ed 3.0 PERMANENT LINK	AD-MM	OM3
ISO/IEC 14763-3 Ed 3.0 PERMANENT LINK	AD-MM	OM4
ISO/IEC 14763-3 Ed 3.0 PERMANENT LINK	AD-MM	OM5
ISO/IEC 14763-3 Ed 3.0 E2E	AD-MM	OM1

ISO/IEC 14763-3 Ed 3.0 E2E	AD-MM	OM2
ISO/IEC 14763-3 Ed 3.0 E2E	AD-MM	OM3
ISO/IEC 14763-3 Ed 3.0 E2E	AD-MM	OM4
ISO/IEC 14763-3 Ed 3.0 E2E	AD-MM	OM5
ISO/IEC 14763-3 Ed 3.0 MPTL	AD-MM	OM1
ISO/IEC 14763-3 Ed 3.0 MPTL	AD-MM	OM2
ISO/IEC 14763-3 Ed 3.0 MPTL	AD-MM	OM3
ISO/IEC 14763-3 Ed 3.0 MPTL	AD-MM	OM4
ISO/IEC 14763-3 Ed 3.0 MPTL	AD-MM	OM5
ISO/IEC 14763-3 Ed 3.0 CHANNEL	AD-SM	OS1
ISO/IEC 14763-3 Ed 3.0 CHANNEL	AD-SM	OS2
ISO/IEC 14763-3 Ed 3.0 PERMANENT LINK	AD-SM	OS1
ISO/IEC 14763-3 Ed 3.0 PERMANENT LINK	AD-SM	OS2
ISO/IEC 14763-3 Ed 3.0 E2E	AD-SM	OS1
ISO/IEC 14763-3 Ed 3.0 E2E	AD-SM	OS2
ISO/IEC 14763-3 Ed 3.0 MPTL	AD-SM	OS1
ISO/IEC 14763-3 Ed 3.0 MPTL	AD-SM	OS2
ISO/IEC 11801:2002 FIBRE LINK	AD-SM	OM3
ISO/IEC 11801:2002 FIBRE LINK	AD-SM	OM4
ISO/IEC 11801:2002 FIBRE LINK	AD-SM	OM5
ISO/IEC 11801:2002 FIBRE LINK	AD-SM	OS2
ISO/IEC 11801-1:2017 FIBRE LINK	AD-SM	OM3
ISO/IEC 11801-1:2017 FIBRE LINK	AD-SM	OM4
ISO/IEC 11801-1:2017 FIBRE LINK	AD-SM	OM5
ISO/IEC 11801-1:2017 FIBRE LINK	AD-SM	OS1a
ISO/IEC 11801-1:2017 FIBRE LINK	AD-SM	OS2
ISO/IEC 14763-3:2006 PERMANENT LINK	AD-SM	OM3
ISO/IEC 14763-3:2006 PERMANENT LINK	AD-SM	OM4
ISO/IEC 14763-3:2006 PERMANENT LINK	AD-SM	OM5
ISO/IEC 14763-3:2006 PERMANENT LINK	AD-SM	OS2
EN 50173-1	AD-SM	OM3
EN 50173-1	AD-SM	OM4
EN 50173-1	AD-SM	OM5
EN 50173-1	AD-SM	OS1
EN 50173-1	AD-SM	OS2

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