PIP-II Standard Cable and Connector List

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Document Number: PIP-II DocDB # 2824

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| **Revision History** | | |
| **Authors** | **Revision Date** | **Description of Change** |
| Ryan Crawford |  | First Release |

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# Purpose

Building infrastructure will procure commonly used cable types and connectors (herein referred to as standard cable and connector types) for the PIP-II project. Centrally managing standard cable and connector types will allow for more efficient purchasing, storing and installation. All cables and connectors listed within this document will have a linked datasheet for easy reference.

# Scope

This document lists the type, manufacturer and part number for the most commonly used cable and connector types for PIP-II. This document covers signal, communication, and DC load cables that will be procured by Building Infrastructure’s WBS. Cables that are used for intra-rack or AC feeder applications are not covered and must be accounted for within their respective WBS. Cables that will be used in the Cryoplant Building (CPB) regardless of application are not covered by this document. Special cables and connectors must be covered by the individual L3M that is requesting them.

# Cable Management

L3Ms will be responsible for entering cable and connector information into the cable database. The database will then be used for purchasing and tracking of all standard cable and connectors. The PIP-II Cable Pull and Document Plan (PIP-II DocDB# 2892) should be consulted for a more in-depth explanation of the cable management plan.

# Cable Criteria

All standard and special cable types must adhere to the cable criteria document for PIP-II (PIP-II DocDB# 3054).

# Standard Signal Cable

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| --- | --- | --- |
| Description | Manufacturer | Part Number |
| [Cat 7](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Belden-%201885ENH.pdf&action=default) | Belden | 1885ENH.03500 |
| [RG58](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/RG-58.pdf&action=default) | Allied Wire and Cable | RG58 |
| [RG58 Red](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/RG-58.pdf&action=default) | Times | RG-58 |
| [Twinax](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Belden-%2089207%20010100.pdf&action=default) | Belden | 89207 010100 |
| [LMR-195-FR](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Times-%20LMR%20195%20FR.pdf&action=default) | Times Microwave | LMR-195-FR |
| [RG58/16C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/RG-58.pdf&action=default) | Allied Wire and Cable | RG58 (x16) |
| [RG174/33C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Belden-%208216.pdf&action=default) | Belden | 8216 0101000 (x33) |
| [22 AWG/4C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Belden-%2083349e.PDF&action=default) | Belden | 83349e |
| [18 AWG/4C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Belden-%205302F1%200101000.PDF&action=default) | Belden | 5302F1 0101000 |
| [18 AWG/5C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Alpha%20Wire-%20861805%20SL005.pdf&action=default) | Alpha Wire | 861805 SL005 |
| [16 AWG/4C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Alpha%20Wire-%201064%20SL005.pdf&action=default) | Alpha Wire | 1064 SL005 |
| [20 AWG/3C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Alpha%20Wire-%20862003%20SL005.pdf&action=default) | Alpha Wire | 862003 SL005 |
| [22 AWG/6C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Alpha%20Wire-%2045196%20BK005.pdf&action=default) | Alpha Wire | 45196 BK005 |
| [22 AWG/10C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Belden-%209946%20060500.pdf&action=default\) | Belden | 9946 060500 |
| [22 AWG/20C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Alpha%20Wire-%201299-20C%20SL005.pdf&action=default) | Alpha Wire | 1299/20C SL005 |
| [18 AWG/2C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Alpha%20Wire-%2045062%20BK005.pdf&action=default) | Alpha Wire | 45062 BK005 |
| [22 AWG/26C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Alpha%20Wire-%201309C%20SL001.pdf&action=default) | Alpha Wire | 1309C SL001 |
| [24 AWG/5P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Belden-%208165%200601000.PDF&action=default) | Belden | 8165 0601000 |
| [22 AWG/6P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Belden-%208778MN%20006100.pdf&action=default) | Belden | 8778MN 006100 |
| [22 AWG/4P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Alpha%20Wire-%2086704CY%20SL005.pdf&action=default) | Alpha Wire | 86704CY SL005 |
| [22 AWG/3P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Belden-%209329%200601000.pdf&action=default) | Belden | 9329 0601000 |
| [22 AWG/2P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Belden-%208723.pdf&action=default) | Belden | 8723 |
| [22 AWG/1P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Alpha%20Wire-%2025481%20BK005.pdf&action=default) | Alpha Wire | 25481 BK005 |
| [22 AWG/15P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Belden-%208749%200601000.PDF&action=default) | Belden | 8749 0601000 |
| [18 AWG/1P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Belden-%208760%2006010000.pdf&action=default) | Belden | 8760 06010000 |
| [18 AWG/3P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Belden-%209773%200605000.PDF&action=default) | Belden | 9773 0605000 |
| [12 AWG/2C Tray Cable](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Belden-%209412.pdf&action=default) | Belden | 9412 060500 |
| [10 AWG/2C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Belden-%205T00UP.pdf&action=default) | Belden | 5T00UP 008500 |
| 8 AWG/2C | WesBell Electronics | TC-ER 8/3 |
| [24 AWG/12P Thermocouple](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Omega-%2012KX24SPP.pdf&action=default) | Omega | 12KX24SPP |
| [Type K Thermocouple](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Belden-%2083905.pdf&action=default) | Belden | 83905 001500 |
| [28 AWG/50C Ribbon](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Tempflex-%20100057.pdf&action=default) | Molex/Temp-flex | 100057-0352 |
| [1/4 Heliax](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Andrew-%20LDF1-50.pdf&action=default) | Andrew/Commscope | LDF1-50 |
| [3/8 Heliax](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Andrew-%20LDF2-50.pdf&action=default) | Andrew/Commscope | LDF2-50 |
| [7/8 Heliax](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/RFS-%20LCF78-50JA.pdf&action=default) | Radio Frequency Systems | LCF78-50J |
| [1 5/8 Heliax](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Andrew-%20AVA7-50.pdf&action=default) | Andrew/Commscope | AVA7-50 |
| [1/2 Superflex Heliax](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Andrew-%20FSJ4-50B.pdf&action=default) | Andrew/Commscope | FSJ4-50B |
| [1/2 Heliax](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Andrew-%20LDF4-50A.pdf&action=default) | Andrew/Commscope | LDF4-50A |

# Standard Signal Connectors

|  |  |  |
| --- | --- | --- |
| Description | Manufacturer | Part Number |
| [Cat 7 RJ45](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Primus-%20CN1-022-8C6AS.pdf&action=default) | Primus | CN1-022-8C6AS |
| [RG58](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/AMP%202-5329082-1.pdf&action=default) | AMP | 2-5329082-1 |
| [RG58 Red](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Kings-%201705-2.pdf&action=default) | Kings | 1705-2 |
| [Twinax](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Trompeter-%20PL75C-201.pdf&action=default) | Trompeter | PL75C-201 |
| [LMR-195-FR](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Amphenol-%20132454.pdf&action=default) | Amphenol | 132454 |
| [RG58/16C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/AMP%202-5329082-1.pdf&action=default) | AMP | 2-5329082-1 (x16) |
| [RG174/33C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/AMP-%202-5330058-1.pdf&action=default) | AMP | 2-5330058-1 (x33) |
| [22 AWG/4C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT06104PHS/R or UT06104SHS/R |
| [18 AWG/4C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT06104PHS/R or UT06104SHS/R |
| [18 AWG/5C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT06128PHS/R or UT06128SHS/R |
| [16 AWG/4C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT06104PHSR |
| [20 AWG/3C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT06104PHSR |
| [22 AWG/6C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT06128PHS/R or UT06128SHS/R |
| [22 AWG/10C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT061492PHSR |
| [22 AWG/20C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT061822PHSR |
| [18 AWG/2C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT06104PHSR |
| [22 AWG/26C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT062030PHSR |
| [24 AWG/5P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT061492PHSR |
| [22 AWG/6P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT061492PHSR |
| [22 AWG/4P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT06128PHS/R |
| [22 AWG/3P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT06128PHS/R |
| [22 AWG/2P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT06104PHSR |
| [22 AWG/1P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT06104PHSR |
| [22 AWG/15P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT062030PHSR |
| [18 AWG/1P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT06104PHSR |
| [18 AWG/3P](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Burndy_Souriau-%20UT06.pdf&action=default) | Burndy/Souriau | UT06128PHS/R |
| [12 AWG/2C Tray Cable](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Panduit-%20PV.pdf&action=default) | Panduit | PV10-14R-L |
| [10 AWG/2C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Panduit-%20PN.pdf&action=default) | Panduit | PN10-10R-D |
| [8 AWG/2C](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Thomas%20and%20Betts-%2054%20Series.pdf&action=default) | Thomas and Betts | 54130 |
| [24 AWG/12P Thermocouple](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Omega-%20JPJB-6-K-ST.pdf&action=default) | Omega | JPJB-6-K-ST |
| [Type K Thermocouple](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Omega-%20SMPW-K-M.pdf&action=default) | Omega | SMPW-K-M |
| 28 AWG/50C Ribbon | CeramTech | 16804-01-MOD |
| [1/4 Heliax](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Andrew-%20L1TNM-PL.pdf&action=default) | Andrew | L1TNM-PL |
| [3/8 Heliax](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Andrew-%20L2TNM-PL.pdf&action=default) | Andrew/Commscope | L2TNM-PL |
| 7/8 Heliax | Cablewave | 15570472 |
| [1 5/8 Heliax](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Andrew-%20AL7NM-PS.pdf&action=default) | Andrew/Commscope | AL7NM-PS |
| [1/2 Superflex Heliax](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Andrew-%20F4PNMV2-HC.pdf&action=default) | Andrew | F4PNMV2-HC |
| [1/2 Heliax](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Andrew-%20L4TDM-PSA.pdf&action=default) | Andrew | L4TDM-PS-7 |

# Standard Load Cable

|  |  |  |
| --- | --- | --- |
| Description | Manufacturer | Part Number |
| RG-220 | Times Microwave | AA5966 |
| [10 AWG/2C](https://web.fnal.gov/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Anixter-%202A-1002.pdf?csf=1&e=acnkPY) | Anixter or similar | 2A-1002 |
| 1/0 AWG/2C | Leff Electric or similar | 1/0-2C |
| [2/0 AWG](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Southwire-%20THHN.pdf&action=default) | Any | 2/0 AWG Stranded THHN |
| [500 MCM](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Cables/Southwire-%20THHN.pdf&action=default) | Any | 500 MCM Stranded THHN |

# Standard Load Connectors

|  |  |  |
| --- | --- | --- |
| Description | Manufacturer | Part Number |
| [10 AWG](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Panduit-%20PN.pdf&action=default) | Panduit | PN10-10R-D |
| [1 AWG](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Thomas%20and%20Betts-%2054108NT.pdf&action=default) | Thomas and Betts | 54108NT |
| [2/0 AWG](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Thomas%20and%20Betts-%2054%20Series.pdf&action=default) | Thomas and Betts | 54110 |
| [500 MCM](https://web.fnal.gov/project/piptech/_layouts/15/WopiFrame.aspx?sourcedoc=/project/piptech/BldgI%20%20ElecDesig%20%20RackBuild/CABLE%20LIBRARY/Datasheets/Connectors/Thomas%20and%20Betts-%2054%20Series.pdf&action=default) | Thomas and Betts | 54187 |
| RG-220 | Isolation Products | D-302-3 |