



IDO Wiring Manager

IDO Wiring Manager Feature Summary:

The *Instrumentation Design Office (IDO)* wiring management application *Wiring Manager* handles all tasks related to detail cable, wiring and termination design. *Wiring Manager* has three integrated modules:

- **Wiring Manager - Equipment** module enables fast definition and editing of equipment terminal arrangements including terminal strips, devices and I/O modules, design of 'internal' wiring and cable terminations
- **Wiring Manager - Cables** module enables fast definition of project cables from a user definable cable catalog and assignment of cable ends to equipment. Also assignment of cable glands and gland adapters and Bill of Materials reporting.
- **Wiring Manager - Cable Block Diagrams** module enables a graphical representation of cable interconnections. Users can create equipment and cables within each diagram or drag existing equipment into a diagram and all interconnected equipment is automatically added and cables shown.

Wiring Manager data is used by *IDO Designer* to create AutoCAD drawings automatically.

Advanced Graphic User Interface:

- Graphical representation of all equipment components and terminals
- Easy to learn, intuitive and accurate representation of plant equipment/cabling
- Drag and Drop wire terminations (from list of wires not yet terminated!)
- Equipment View displayed as hierarchy of plant areas, buildings/locations/equipment types etc. for easy access
- Search for and locate for any equipment tag in Equipment View or Cable Schedule
- Jump to Cable Terminations from cable schedule and Jump to other end of wire when viewing terminations
- Build interactive cable block diagrams to view/edit your cables and terminations
- Graphical 'internal' equipment component layout including 'drag & drop' arrangement
- Catalogue driven components ensures design consistency

Cable Management:

- Create cables by copying existing cables or by copying from project cable catalog
- Cable Schedule grid supports user definable columns, order and filters
- Merge two cables to create a new cable (where cables have same source & destinations)
- Split cables into two based on cable properties (cable type, core size, screens/shields etc.)
- Change of Catalogue Number updates all core markings and re-aligns cores by type and marking
- Assign Cable Glands from user definable gland catalogue based on gland/cable properties (i.e auto match cable outside diameter/Gland range)
- Assign Cable Gland Adapters from user definable gland adapter catalogue based on gland/equipment connection properties
- Produce cable schedule reports, cable Bill of Materials (BOM), Gland BOM and Gland Adapter BOM reports
- Auto Cable drumming creates Cable Drums by cable type & assigns all cables to optimise cable usage & minimise wastage



Equipment View:

- Graphical representation of all equipment components and terminals in Plant/Area hierarchy
- Define equipment terminal arrangements including:
 - Field Devices, Devices (Relays, IS Isolators, Power Supplies etc), I/O Modules
 - Junction Boxes, Marshalling Cabinets/Panels and other Equipment such as MCCs, DBs etc
 - Copy existing arrangements
- Define terminal strips/DIN rails etc within equipment:
 - Automatically create terminal strips of any number of terminals
 - Create equipment terminal arrangements based on standard equipment arrangement catalog
 - Merge Terminal Strips in same equipment, move terminals to new strip (i.e. split) – retaining wire terminations
 - Move Terminal Strips to other equipment – retaining wire terminations
- Supports DIN Rails with combination of terminals & devices (relays, IS Isolators, I/O modules etc)
- Access equipment terminations, equipment and device catalogues
- Supports assignment of instrument tags to Junction Boxes and auto creation of cables/terminations based on IDO 'wiring rules'

Cable/Wire Terminations:

- Drag and drop wire terminations (on wire by wire basis or terminate an entire cable)
- Auto connect cables/wires by matching wire numbers
- Work with a list of cables and cable cores not yet terminated!
- Supports multiple terminations per terminal
- Supports wire number inheritance (wire nos. are 'passed' along interconnected cable cores and wires)
- Supports Terminal marking modification (terminal re-numbering) one at a time or in groups
- Automatic cross-patch wiring within equipment (e.g. Marshalling Cabinets) and between equipment in same room
- Supports "Links" and "Looping wires" between terminals, fused terminals and disconnect terminals
- Creates graphical termination reports instantly in PDF format without requiring any CAD application

The screenshot displays a software interface for cable management. On the left, a 'Cable Schedule' table is visible, listing various cables with their specifications. On the right, an 'Edit Cable Details' dialog box is open, showing configuration options for a selected cable.

Cable No	From	To	Length	Cores	Size	OAS
56-SJB-007	56-SJB-007	56-SIC-055	130	20Pr	0.5mm ²	✓
56-SJB-018	56-SJB-018	56-SIC-056	80	20Pr	0.5mm ²	✓
56-SJB-021	56-SJB-021	56-SIC-056	130	20Pr	0.5mm ²	✓
56-SJB-023	56-SJB-023	56-SIC-156	150	20Pr	0.5mm ²	✓
56-SJB-024	56-SJB-024	56-SIC-156	180	20Pr	0.5mm ²	✓
56-SJB-025	56-SJB-025	56-SIC-156	150	20Pr	0.5mm ²	✓
56-SJB-026	56-SJB-026	56-SIC-156	170	20Pr	0.5mm ²	✓
56-SJB-031	56-SJB-031	56-AIC-01	110	20Tr	0.5mm ²	✓
56-SJB-032	56-SJB-032	56-SIC-157	100	20Pr	0.5mm ²	✓
56-SJB-033	56-SJB-033	56-SIC-156	130	20Pr	0.5mm ²	✓
56-SJB-035	56-SJB-035	56-AIC-01	150	20Tr	0.5mm ²	✓
56-SJB-036	56-SJB-036	56-SIC-157	150	20Pr	0.5mm ²	✓
56-SJB-037	56-SJB-037	56-SIC-156	150	20Pr	0.5mm ²	✓
56-SJB-039	56-SJB-039	56-AIC-01	150	20Tr	0.5mm ²	✓

The 'Edit Cable Details' dialog box shows the following fields:

- Project Status: New
- Cable Number: 56-SJB-024
- From: 56-SJB-024
- To: 56-SIC-156
- Length: 180 m
- Core Size: 0.5mm²
- Voltage: 300V

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