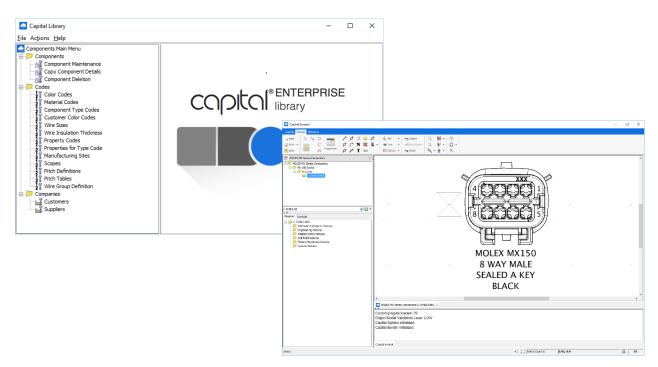




Mentor Graphics <u>Capital®</u> and <u>VeSys®</u> QuickStart Library Development and Maintenance Service

Use our *QuickStart* custom library development service to quickly build a solid foundation for your Mentor Graphics <u>Capital®</u> or <u>VeSys®</u> design tools. Your custom Symbol and Component library content will be assembled from our ever growing selection of automotive and aerospace electrical system components. Our master library includes a comprehensive selection of the wire, cable, and connection systems used in today's increasingly complex designs. Our data is constructed using advanced <u>Capital®</u> and <u>VeSys®</u> library features and strategies that will help you achieve the full potential of your investment and serve as a template for future growth.





Component Library

Based on your requirements, we will provide a *QuickStart* custom library of component parts (i.e. wires, connectors, terminals, boots, insulation, clips, etc.) that can be used in designs created in Capital[®] and VeSys[®]2.0 design tools. The library will contain the wire and multicore cable that you specify. Connectors are configured to include typically used mandatory and optional "Housing" parts such as terminals, cavity plugs, boots, seals, and mounting hardware. Cavity names, cavity attributes and mating information is also provided. The following library design features and default specifications are used.

Common Unit of Measurement

The library unit of measurement is **metric**. Length values are in **millimeters** (mm) and weight values are in **grams**. Note that the use of metric units in the library does not prevent the use of imperial units in design projects.

Codes

Component Library "Codes" (such as color, wire size, material, wire size, wire insulation size, and wire groups) provide an essential foundation for the components that will be configured in the library.

Color Codes: Default is 3 characters (BLK = Black)¹ **Material Codes:** Common Abbreviations are used¹ **Wire Groups:** Used to define groups of wires that meet terminal and seal constraint specifications²

赨 Wire Sizes						×
Filter						÷ 🗢 🤇
Attribute Name		Operator		Value		
Wire Size						
-Material Code		=				
CSA		>=		0.0		
Specification		starts with				
Wire Sizes						
Material Code	Specification	CSA	Wire Usual	Outside Diamet	er	
GXL	14	2.0		2.755769		
GXL	16	1.0		2.288379		
GXL	18	0.8		2.169253		
GXL		0.5		1.957885		
GXL	6	13.0		6.248429		
GXL	8	8.0		5.071538		
HTS	10	4.65		4.773221		
HTS	12	2.91		4.264871		~
Q				New	<u>R</u> eset	<u>D</u> elete
Material Code:	GXL					
Specification:	20					
CSA:	0.500000					Wire Usua
Help					Apply	Close

Component Part Numbers

Components are typically identified by multiple part numbers. Capital[®] and VeSys 2.0 design tools have powerful search and reporting capabilities that support the following strategy for assigning component part numbers.

Internal Part Number:Default is component manufacturer's part number with a "category" prefix 3, 4Customer Part Number(s):The customer's part number assigned to the component 4Supplier Part Number(s):Manufacturer's and/or distributer part numbers assigned to the component 2, 5

Status

The "status" of all components is "New".

Notes:

- 1. Up to 4 characters are allowed.
- 2. Can be modified by the end user.
- 3. Internal part numbers can be modified by the end user if they have not yet been used in a design project.
- 4. Can be preloaded if provided by the customer (additional cost).
- 5. Manufacturer's part number will be listed as the "Preferred" supplier unless otherwise specified (can be modified by the end user).



	tion								
Internal Custon	mer Supplier								
Internal Part No	o. C-12129487				∠ ₽	Latest R	evision	Advance	ed Searc
Filter								\$	•
Attribute Name			Operato	r V	alue				
Jbrary Part				i i i i i i i i i i i i i i i i i i i					
Part Number \land	Group Name	No. Cav	vities	Description	Type	Color	Materi	Unit Of M	e Ar
C-12129225	Connector	24		CONN,MICRO PCK100W, 24 WAY, FML, SLD, NAT	CONN	NAT	PBT	Each	0.0
C-12129380	Connector	1		CONN,MP800, 1 WAY,FML,SLD,BLK	CONN	BLK	NYL	Each	0.0
C-12129385	Connector	3		CONN, MP800, 3 WAY, ML, SLD, BLK	CONN	BLK	PA6	Each	0.0
C-12129427	Connector	16		CONN, ACT280, 16 WAY, ML, UNSLD, BLK	CONN	BLK	PPE	Each	0.0
C-12129487	Connector	2		CONN ASM, MP 280, 2 WAY, FML, SLD, GRY	CONN	GRY	NYL	Each	0.0
C-12129489	Connector	3		CONN, MP280, 3 WAY, FML, UNSLD, BLK	CONN	BLK	NYL	Each	0.0
C-12129490	Connector	3		CONN,MP280,3 WAY,ML,UNSLD,BLK	CONN	BLK	NYL	Each	0.0
C-12129565	Connector	4		CONN ASM, MP280, 4 WAY, FML, SLD, GRY	CONN	GRY	NYL	Each	0.0
									>
© <u> </u>					New	Rey	ise	Cogy	
iomponent Detail	ls	er Housing	Scope F	Yroperties Cavity Names Mating Single Wire Fil				_	Reset
i omponent Details Base Extra Sy	ls	er Housing	Scope F	Yoperties Cavity Names Mating Single Wire Fil			e Fits Cavit	_	Reset
Group Name:	s ymbol Customer Supplie Connector			roperties Cavity Names Mating Single Wire Fil	ts Cavity M	ultiple Win Status	e Fits Cavil	ty Cavity	Reset
iomponent Details Base Extra Sy Group Name:	ls ymbol Customer Supplie			roperties Cavity Names Mating Single Wire Fi	ts Cavity M	ultiple Win Status	e Fits Cavit	ty Cavity	Reset
Component Details Base Extra Sy	s ymbol Customer Supplie Connector			Yoperties Cavity Names Mating Single Wire Fil	ts Cavity M	ultiple Win Status Unit Of	e Fits Cavil	ty Cavity	Reset
Omponent Details Sy Group Name: Description:	Is			Yoperties Cavity Names Making Single Wire Fil	ts Cavity M	ultiple Win Status Unit Of	e Fits Cavil : f Mgasure :	ty Cavity	Reset
Omponent Details Omponent Details Base Extra Sy Group Name: Description: Type Code:	Connector CONN ASM,MP280,2 WA			Yoperties Cavity Names Mating Single Wire Fil	ts Cavity M	ultiple Win Status Unit O	e Fits Cavit : f Mgasure: n:	ty Cavity	Reset

Connectors

Connector group components are populated per the manufacturer's specifications. Cavities are named and the mating connector(s) are designated. Part numbers are developed for typically used housing components and added to the *Housing* tab (i.e. locks, seals, terminals, cavity plugs).

Values for Add On, Knock Off and Dressed Routes are typically <u>not</u> provided unless they are included in the manufacturer's drawings or specifications.

Cavity Groups

Cavity Groups are utilized to manage multiple housing component options for connectors. A Cavity Group serves as a "Container Part" for a set of cavity components (for example; terminals, cavity seals and cavity plugs).

Future maintenance is simplified because it is easier to update a few cavity groups than many connector part numbers.

Component Main	contained.									
omponent Selection —										
internal Customer S	Supplier									
Internal Part No.	G-MLX-MX150-SM						2	Latest Revis	ion 🗹 Adv	anced Sea
ilter										÷ 🔘
Attribute Name			Operator			Value				
ibrary Part										
Part Number ^	Group Name	Description		Type	Materi					
CG-MLX-MX150-SF	Cavity Group		EX,MX150,SLD,FM	TERM	-					
CG-MLX-MX150-SM	Cavity Group		EX,MX150,SLD,MALE	TERM						
CG-MLX-MX150L-SF	Cavity Group		EX,MX150L,SLD,FEMALE	TERM						
CG-MLX-MX150L-SM	Cavity Group		EX,MX150L,SLD,MALE	TERM	÷					
🛯 q. 11 • 🔄 •							New	Revise	Copy	Reset
							_	_		
mponent Details										
Sub-Component A		Sub-Component	Group							
Sub-Component Active Cavity Group De Sub-Component Active Cavity Group De Sub-Component Active CP-34345-0001		Sub-Component Cavity Plug	Group							
Sub-Component CP-34345-0001 T-33000-1001		Sub-Component	Group							
Sub-Component Cavity Group Dr Sub-Component ^ CP-34345-0001 ^ T-33000-1001 ^		Sub-Component Cavity Plug Terminal	Group							
Sub-Component Details Sub-Component ^ CP-34345-0001 T-33000-1001 T-33000-1002 T-33000-1003		Sub-Component Cavity Plug Terminal Terminal	Group							
xmponent Details iase Cavity Group Details Sub-Component ^ CP-34345-0001 T-33000-1001 T-33000-1002 T-33000-1003 T-33001-1003		Sub-Component (Cavity Plug Terminal Terminal Terminal	Group							
CP-34345-0001		Sub-Component (Cavity Plug Terminal Terminal Terminal Terminal	Group							
Sub-Component Details Sub-Component ^ CP-34345-0001 T-33000-1002 T-33000-1003 T-33001-0003 T-33011-0002 T-33001-0004		Sub-Component (Cavity Plug Terminal Terminal Terminal Terminal Terminal	Group							
Sub-Component Details Sub-Component ^ CP-34345-0001 T-33000-1002 T-33000-1003 T-33001-0003 T-33011-0002 T-33001-0004		Sub-Component (Cavity Plug Terminal Terminal Terminal Terminal Terminal	Group							
Sub-Component Details Sub-Component ^ CP-34345-0001 T-33000-1002 T-33000-1003 T-33001-0003 T-33011-0002 T-33001-0004		Sub-Component (Cavity Plug Terminal Terminal Terminal Terminal Terminal	Group							
mponent Details ase Cavity Group De Sub-Component CP-34345-0001 T-33000-1001 T-33000-1002 T-33001-0002 T-33011-0002 T-33011-0004		Sub-Component (Cavity Plug Terminal Terminal Terminal Terminal Terminal	Group							
mponent Details ase Cavity Group De Sub-Component CP-34345-0001 T-33000-1001 T-33000-1002 T-33001-0002 T-33011-0002 T-33011-0004		Sub-Component (Cavity Plug Terminal Terminal Terminal Terminal Terminal	Group							
Sub-Component Details Sub-Component ^ CP-34345-0001 T-33000-1002 T-33000-1003 T-33001-0003 T-33011-0002 T-33001-0004		Sub-Component (Cavity Plug Terminal Terminal Terminal Terminal Terminal	Group						Punt	
mponent Details ase Cavity Group Dr GP-31345-0001 T-33000-1002 T-33000-1003 T-33011-0002 T-33011-0004 T-33011-0004		Sub-Component (Cavity Plug Terminal Terminal Terminal Terminal Terminal	Group					New	ßeset	Delet
Sub-Component Details Sub-Component ^ CP-34345-0001 T-33000-1002 T-33000-1003 T-33001-0003 T-33011-0002 T-33001-0004		Sub-Component (Cavity Plug Terminal Terminal Terminal Terminal Terminal	Group		Status:	New		New	<u>B</u> eset	Deleta
age Cavity Group Dr Sub-Component ^ Cavity Group Dr T-33000-1002 T-33000-1002 T-33000-1003 T-33011-0004 T-33011-0004 T-33011-0004		Sub-Component (Cavity Plug Terminal Terminal Terminal Terminal Terminal	Group		Status:	New		New	Reset	Deleta
age Cavity Group Dr Sub-Component ^ Cavity Group Dr T-33000-1002 T-33000-1002 T-33000-1003 T-33011-0004 T-33011-0004 T-33011-0004	34345-0001	Sub-Component (Cavity Plug Terminal Terminal Terminal Terminal Terminal	Group		Status:	New		New	Beset	Qeletr



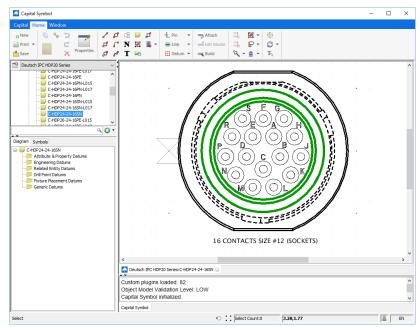
Symbol Libraries

Our connector and border symbol libraries can be purchased to complement your existing Component Library or be used in conjunction with a purchased custom Component Library.

Connector Symbols

Connector (comment) symbols are based on graphic files provided by the connector manufacturer (when available). The symbols depict the connector outline and each cavity from the wire insertion perspective (minimum). Cavities are labeled per the manufacturer's specifications.

Each connector is identified by the manufacturer's part number with a "C" prefix and arranged in a hierarchical tree format. A separate library file is created for each connector manufacturer for ease of maintenance.



Capital Home Window ○ New Image: Second sec	^P ⊂:: ^P ⊂:: ^P T ≅<	
Borders - Oasis Coasis Deders - Oasis Harress Do Sze Do Sze	The productions is an account is the four another of data such as the set of	revision}

Border Symbols

Custom drawing frame and title block (border) symbols can be developed to meet your corporate documentation requirements. Property value placeholders are utilized to automate the addition of project and drawing specific information on your designs.



Your Unique Requirements

<u>Capital</u>[®] and <u>VeSys</u>[®] design tools are used in a wide variety of applications. Accordingly, each *QuickStart* custom library implementation is unique. Custom Symbol and Component libraries are developed from our growing **master library** of popular wiring connector systems and components.



Currently Available Connectors

Contact your Oasis Sales Account Manager for a listing of currently available connector selections and pricing. Each connector includes a graphic symbol (typically wire insertion view) and commonly used terminal, cavity seal, cavity plug, and secondary lock options.

Wire and Cable Options

We offer a wide selection of SAE, Marine and UL wire and cable options with each *QuickStart* library.

Custom Connector Development

We will develop library components and symbols that are not included in our master listing. See "Library Maintenance Service" on the next page for more information. Contact your Oasis Sales Account Manager with your requirements.



Samples

Sample Symbol and Component Library XML files are available for your review. Contact your Oasis Sales Account Manager for more information.

Library Maintenance Service

We offer a flexible library maintenance service that will help keep your design resources focused on project completion. Simply provide us with a periodic listing of your library requirements and we will provide the updates necessary to help keep your design process flowing at peak efficiency.

Custom Report Programming Service

We develop custom Java based Plug-in software to extend the "Out of Box" reporting capabilities of Capital[®] and VeSys 2.0. Custom programming can be used to add BOM fields or interface with wire processing equipment. Source code is provided.

Consulting and Training Services

Ask about our consulting and training services. We can help insure your return on investment with library and style set configuration assistance, library management tips, and best practice advice.

Utilization of our QuickStart component and symbol library services will allow your valuable engineering resources to remain focused on design projects, not library building. Ultimately, our library management expertise will get you started quickly on the road to a successful and productive <u>Capital</u>[®] or <u>VeSys</u>[®] implementation. Contact us today or <u>visit our web</u> site for a more information about our services.

Acknowledgements and Disclaimer

Copyright 2016 Oasis Sales, Inc. All rights reserved. Trademarks, logos and any other proprietary marks displayed are the property of Oasis Sales or their respective owners. Mentor Graphics[®], Capital[®] and VeSys[®] are registered trademarks of Mentor Graphics Corporation. Oasis Sales reserves the right to retain all graphics, component data and programming code generated other than proprietary customer information. No part of the software and documentation may be reproduced, translated, used, distributed, disclosed or provided to third parties without the prior written consent of Oasis Sales.

Consult the latest Capital[®] or VeSys 2.0 Components User Guide for a complete understanding of the process before importing component parts and codes into an existing library.

The software and documentation is provided "as is" without warranty or support of any kind. Oasis Sales offers no express or implied warranties and specifically disclaims any warranty of merchantability, fitness for a particular purpose, or warranty of non-infringement. In no event shall Oasis Sales be liable for direct, indirect, special, incidental, or consequential damages (including lost profits or savings) whether based on contract, tort or any other legal theory, even if Oasis Sales has been advised of the possibility of such damages. Oasis Sales is not responsible for any technical issues that may arise due to the use of obsolete parts and / or graphic symbols. In no event will Oasis Sales liability whether in contract, tort (including negligence), or otherwise, exceed the amount paid for library content.