

CONNECTING SMART COMMUNITIES

Developers and renovators add value to their properties by providing modern homeowners with the smart homes they desire. The devices used to make smart homes come to life require high-speed, and always-on wireless internet access. Additionally, streaming HD video content, automation, and remote monitoring of home security increase demands on the data infrastructure within each residence. Every wireless access point requires a reliable wired Ethernet backbone to connect the smart home's devices to the internet and service providers. In other words, a lot of cable goes into making a smart home – that's why we designed the OCC MSDE Solution.

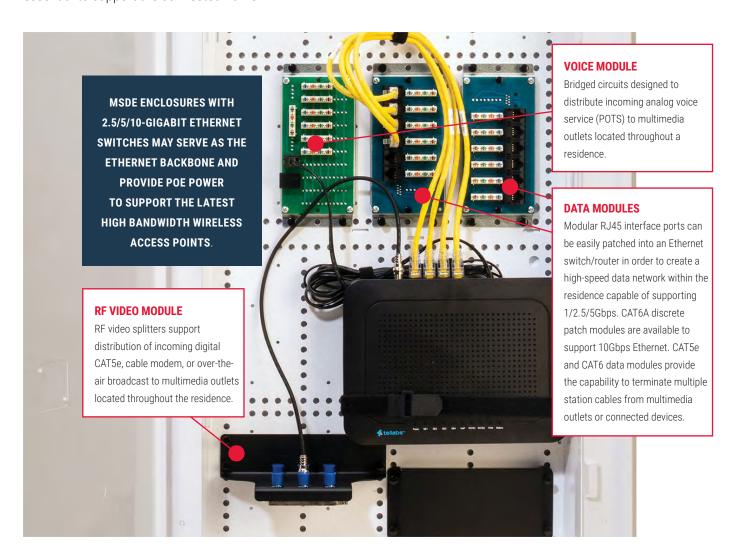
DATA + POWER OVER ONE CABLE

The OCC•10G CAT6A Copper Solution fully supports 10G performance and enhanced 4-pair PoE for the latest 802.11ax and emerging 5G access points.

HOW STRONG IS YOUR BACKBONE?



The OCC MSDE (Multiple Service Distribution Enclosure) Solution is designed primarily for Multi-Dwelling Units (MDU)/ Residential installations. Combined with OCC's POL Solution, the MSDE offers hybrid fiber plus power to save you money on your infrastructure costs for new and existing MDU projects. These rugged, yet lightweight enclosures are constructed of UL 94-V0 ABS plastic and can be flush-mounted between standard 16" stud walls or surface mounted. Voice, data and video distribution modules enable analog voice, VoIP, Broadband Internet, Ethernet/IP Data and RF video distribution to multiple outlet locations or devices within a residence. OCC MSDE Solution can be the foundation of a wired Ethernet backbone essential to support the connected home.



OCC's MDU/Residential MSDE RF Transparent Enclosures accommodate multiple voice, data and video modules, and network electronics, including wireless access points to support distribution of broadband services.



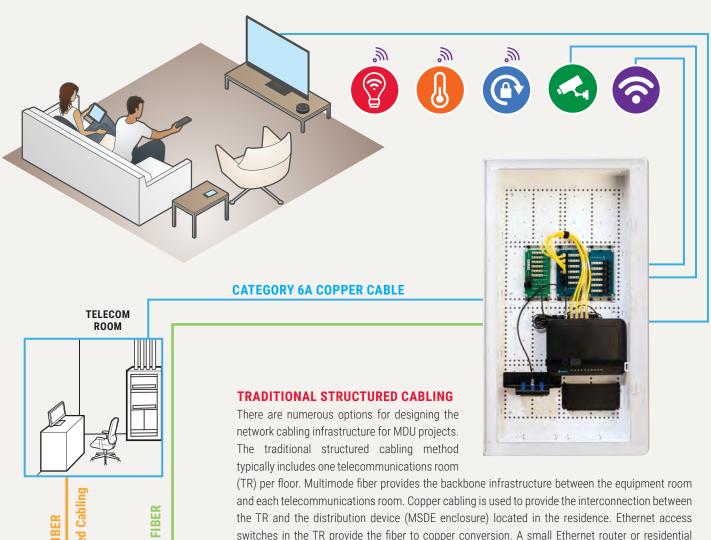








MDU TELECOMMUNICATIONS INFRASTRUCTURE DESIGN



PASSIVE OPTICAL LAN (POL)

POL technology is increasingly being utilized to securely deliver voice, data and IP video and/or broadband video to residences over a single strand of optical fiber. Single-mode fiber, with virtually unlimited bandwidth, provides the backbone infrastructure between the Optical Line Terminal (OLT), located in the equipment room and the Optical Network Terminal (ONT) located in the MSDE enclosure in the residence. Passive optical splitters inserted between the OLT and ONT provide the capability to create a point-to-multi-point network architecture in which a single OLT port may serve multiple ONTs. The ONT provides the fiber to copper conversion and the networking capability within each residence.

gateway located in the MSDE enclosure provides networking capability within each residence.

Whether you choose a traditional structured cabling design or POL, OCC has the expertise to build the right solution to meet your needs. Our customers continue to count on OCC's robust product offering to provide a single source to fulfill their infrastructure needs.

EQUIPMENT ROOM

OCC MSDE SOLUTION



MSDE RE TRANSPARENT ENCLOSURES

DESCRIPTION	OCC PART #
15" Enclosure with Hinged Door	MSDE15P
30" Enclosure with Hinged Door	MSDE30P
15" Enclosure, 6-Pack	MSDE15P-BOX6
15" Hinged Door, 6-Pack	MSDE15P-DOOR6
30" Enclosure, 6-Pack	MSDE30P-BOX6
30" Hinged Door, 6-Pack	MSDE30P-DOOR6
15" Enclosure	MSDE15P-BOX
15" Hinged Door	MSDE15P-DOOR
30" Enclosure	MSDE30P-BOX
30" Hinged Door	MSDE30P-DOOR
CAM Lock with Keys	MSDEP-LOCK

FEATURES

- > Mounting tabs for standard 16" on-center stud spacing
- > Enclosures mount flush with wall when using standard 2x4 studs and 1/2" drywall
- > Versatile pegboard mounting configuration
- > Multiple knockouts for cable entry
- > UL 94-V0 ABS Plastic construction
- > Hinged, vented doors for heat dissipation
- > UL 1863, Standard for Communications-Circuit Accessories
- > Minimizes wireless signal degradation
- > UL2416, Standard for Audio/Video, Information and Communication Technology Equipment Cabinet, Enclosure and Rack Systems
- > Multiple Purchase Options
 - Enclosures and Covers may be purchased in 6-Packs
 - · Single enclosure and cover purchased together
 - Single enclosure and cover purchased separately
 - Pre-Configured enclosure kits with modules –See part configurator table

MSDE RF TRANSPARENT ENCLOSURES & DISTRIBUTION MODULES PART CONFIGURATOR

MSDExxP	Тххх	Dxx	Vx	L
xx = 15" Enclosure/Door	T = Telco Module	D = Data Module	V = Video Module	L = Lock
xx = 30" Enclosure/Door	T000 = No Telco Module	D00=No Data Module	X = Number of Ports (4 or 6)	Blank = No lock
	408 = 4x8 Telco Module	2nd digit; blank = Cat5e; 6 = Cat6	V0 =No Video Module	
		3rd digit = #ports	Ex. V4=4 Port Video Module	
		Ex. D65 = Cat6 5-port module		-

Example: MSDE30PT408D68V6 (30" Enclosure, 4x8 Telco Module, Category 6 8-Port Data Module, 6-Port Video Module)

VOICE DISTRIBUTION MODULES

DESCRIPTION	OCC PART #
Voice Distribution Module, 4-Line Input x 6 Outputs	MODP-T406
Voice Distribution Module, 4-Line Input x 8 Outputs	MODP-T408
Voice Distribution Module, 4-Line Input x 10 Outputs	MODP-T410

FEATURES

- > 4-line telco input
- > Network test port
- > RJ31X alarm interface port
- > Available in 6, 8 and 10 station output configurations
- > 110 punch down blocks for quick and reliable terminations

RF VIDEO DISTRIBUTION MODULES

DESCRIPTION	OCC PART #
Video Distribution Module, 1x4, 1GHz	MODP-V4
Video Distribution Module, 1x6, 1GHz	MODP-V6

FEATURES

- > F-Style Connectors
- > 5-1000MHz Bandwidth
- > 4- & 6-port configurations available > Modules are easily mounted using plastic push-pins fasteners

DATA DISTRIBUTION MODULES

DESCRIPTION	OCC PART #
Category 6 Data Distribution Module, 4-Port	MODP6-DB4
Category 6 Data Distribution Module, 5-Port	MODP6-DB5
Category 6 Data Distribution Module, 6-Port	MODP6-DB6
Category 6 Data Distribution Module, 7-Port	MODP6-DB7
Category 6 Data Distribution Module, 8-Port	MODP6-DB8
Category 5e Data Distribution Module, 4-Port	MODP-DB4
Category 5e Data Distribution Module, 5-Port	MODP-DB5
Category 5e Data Distribution Module, 6-Port	MODP-DB6
Category 5e Data Distribution Module, 7-Port	MODP-DB7
Category 5e Data Distribution Module, 8-Port	MODP-DB8

FEATURES

- > Category 5e and Category 6 configurations available
- > Available in 4-,5-, 6-, 7- and 8-port configurations
- > 110 punch-down blocks for quick and reliable terminations of station cables
- > RJ45 modular ports for patching into switch/router
- > Modules are easily mounted using plastic push-pin fasteners

OCC MSDE SOLUTION

12-PORT KMJ MOUNTING BRACKET

DESCRIPTION	OCC PART #
Mounting Bracket, 12-Port, KMJ, Unloaded	MODP-12PBKT

FEATURES

- > Accommodates up to (12) KMJ jacks/ inserts/adapters
- > May be used with Cat6A KMJ modula jacks to create a data distribution module capable of supporting 10Gbps Ethernet



*Sold as empty bracket only, KMJ Jacks must be ordered separately.

NETWORK EQUIPMENT MOUNTING BRACKET

DESCRIPTION	OCC PART #
Network Equipment Mounting Bracket	MSDEP-NBKT

FEATURES

- Accommodates modems, routers, switches or ONT devices
- > 3" H x 6" W
- > Versatile Velcro mounting strap



PATCH CORDS

CATEGORY	OCC PART #
CAT6A	PC6AU-B-xxyy
CAT6	PCSIXxxByy
CAT5E	PC5EBxxByy



xx=length; yy=COLOR: 01=Yellow; 02=Black; 03=Red; 04=Green; 05=Blue; 06=Gray; 07=White; 08=Orange; 09=Brown; 10=Purple



Contact your OCC representative at **1-800-622-7711** for ordering information. We're ready to assist you.

PATCH PANELS

CATEGORY	PORTS	RU	OCC PART #
CAT6A	24	1	DCC2488/1106AN
CAT6A	48	2	DCC4888/1106AN
CAT6	24	1	DCC2488/110SIX
CAT6	48	2	DCC4888/110SIX
CAT5E	24	1	DCC2488/110A5E-R
CAT5E	48	2	DCC4888/110A5E-R



OCC patch panels are available in both flat and angled styles. Category 6A patch panels utilize discrete high performance modular jacks.

KMJ JACKS/FIELD TERMINABLE PLUGS

CATEGORY	KMJ JACK/FIELD TERMINABLE PLUG	OCC PART #
CAT6A	JACK	К6Ахх
CAT6	JACK	KMJA6xx
CAT5E	JACK	KMJA5Exx
CAT6A	PLUG (UTP)	OCCUFP6A
CAT6A	PLUG (STP)	OCCSFP6A

xx=color; 01=Office White, 02=Black, 03=Red, 04=Green, 05=Blue, 06=Gray, 08=Orange, 09=Yellow, 10=Purple, 11=Brown, 12=Bright White, 18=Light Blue





In addition to providing excellent link/channel performance, OCC modular jacks exceed TIA component electrical performance. Category 6A shielded and unshielded field terminable plugs are backwards compatible and may also be used in the Category 5e and Category 6 modular plug terminated links.



KMJ FACEPLATES (SINGLE GANG)

PORTS	ID WINDOWS	OCC PART #
1	YES	FPSK01xx
2	YES	FPSK02xx
3	YES	FPSK03xx
4	YES	FPSK04xx
6	YES	FPSK06xx
1	NO	FPKS01xx
2	NO	FPKS02xx
3	NO	FPKS03xx
4	NO	FPKS04xx
6	NO	FPKS06xx

xx=color; 00 = Electrical Ivory, 01 = Office White 12 = Bright White



COPPER CABLE

CATEGORY	CMR/CMP	OCC PART #
CAT6A	CMP	OCC-U6A4PLM-XX
CAT6A	CMR	OCC-U6A4R-XX
CAT6	CMP	OCC-UE64PLM-XX
CAT6	CMR	OCC-UE64R-XX
CAT5E	CMP	OCC-U5E4PLM-XX
CAT5E	CMR	OCC-U5E4R-XX

xx=color; 01=Yellow, 02=Black, 03=Red, 04=Green, 05=Blue, 06=Gray, 07=White, 08=Violet, 09=Orange

OCC copper cables support all IEEE PoE standards for DC power delivery over 4-pair cabling when installed in accordance with

TIA TSB-184-A guidelines.



SUPPORT & WARRANTY

TECHNICAL AND DESIGN-BUILD EXPERTISE

Instead of relying on OCC just for products, more and more of our customers rely on our design-build expertise. Our design engineers and technical staff provide unprecedented service, support, and assistance.

ONE-STOP SHOP

Since we provide one of the largest network-solutions portfolios in the industry, many of our customers rely on OCC as their one-source solutions provider. From the most reliable end-to-end cabling and connectivity systems, down to the shortest patch cable, we can meet your every network need.

CUSTOMER-DERIVED INNOVATIONS

We partner with you, our customer, and listen to your needs. Thanks to our customers, we've designed, innovated, and customized some of the best solutions in the industry, providing the speed, immediate scalability, space savings, and ultra-high performance demanded by zero-downtime networks of all sizes.

COMPETITIVE WARRANTY PROGRAMS

OCC, in conjunction with certified Multimedia Design and Integration Specialist (MDIS) installers around the world, is able to offer various competitive warranty and extended warranty programs. OCC has developed warranty plans that offer a flexible approach to long-lasting network installations.

QUICK SHIPPING







SAME DAY SHIPPING ON IN-STOCK ITEMS IF ORDERED BY 12PM, EST.







VISIT OCCFIBER.COM

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540-265-0690 or 800-622-7711

OCC DALLAS, TX

Harsh Environment and Specialty Connectivity

Manufacturing Facility

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972-509-1500 or 877-509-1500

OCC ASHEVILLE, NC

Enterprise Connectivity

Manufacturing Facility

33 Superior Way Swannanoa, NC 28778 USA

828-298-2260 or 800-880-7674

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