



## VOLUME 46 - APRIL 2023

#### Visit sandman.com for Our Full Catalog & Knowledgebase

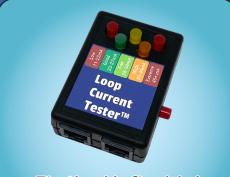
## **Specialty Handsets**

- Push-To-Talk
  Push-To-Mute
  Noise Cancelling
  Amplified
  - Inmate
  - Kiosk

## **Custom Cable Assemblies**



QWIK Cables • 25 Pair • 50 Pair • 100 Pair



Fix the Unfixable!

**Tech Devices** 





Professional Installation Tools & Accessories

DISCOVER

## **Installation Equipment**

## https://www.sandman.com

MasterCard



## About sandman.com™

**sandman.com**, **Inc.** (formerly Mike Sandman Enterprises) started as a distributor of the *"World's Best"* low voltage **installation tools and equipment**.

As the Telecom industry evolved, we've developed hundreds of **tech devices** that solve strange problems and help bridge the gap between analog, digital, and VoIP.

Solving problems and educating technicians has always been at the core of our business. Our **Knowledgebase** has detailed technical explanations and solutions to common telecom issues.

We currently manufacture the world's largest selection of **specialty handsets**, including Push-To-Talk (PTT), Noise Cancelling, and Amplified handsets.

We also manufacture **custom cable assemblies** to help installers get the job done quickly and leave the site looking clean and professional.

## **Get in Touch**

Online: www.sandman.com Phone: (630) 980-7710

Email: sales@sandman.com



MONEY BACK GUARANTEED

Monday - Friday 8:30 AM to 5:00 PM CST

@sandmandotcom

We offer a 30-day money back guarantee on all standard products. If our product doesn't solve your problem, just give us a call to request an R.M.A. within 30 days. Does not apply to custom products. Visit **sandman.com/terms** for full ordering terms.

## Made in the USA

**Since 1990**, we've been manufacturing specialty handsets, custom cable assemblies, and unique problem-solving telecommunications devices in the suburbs of Chicago.

Now, more than ever, it's important to keep a handle on your supply chain. Customers are tired of long lead times, price gouging and excuses.

We've helped our customers get their jobs done on time (and on budget) for over 30 years.



## **sandman.com**<sup>™</sup> Helping you make **IT** work.

- 1,000s of Products & Components In Stock
  - Fair and Competitive Pricing
  - High Quality, Low Lead Times
  - Rapid Prototyping & Production
    - Fast and Affordable Shipping
  - 30+ Years Supporting the Industry

We work closely with domestic injection molding companies and machine shops to source materials for our unique products, and assemble them in-house.

Working with a U.S. Based manufacturer means not worrying about port congestion, tariffs and lengthy delays in communication.

## What can we help you build?



Order Online at www.sandman.com

#### Low Voltage Installation **STOP Crooked Cut Outs!** sandman.co Low Voltage Mounting **Bracket Template** sandman.com Professional Grade Installation Tool LOW VOLTAGE Supports Single & Double Gang MOUNTING Vertical & Horizontal Levels BRACKET Centering Tick Marks TEMPLATE • 4" Convenience Ruler ST & PROFESSIONAL MOUNTING RIZONTAL OR VERTICAL MOUNT See it in action! SINGLE GANG AND DOUBLE GANG Flush mount template www.sandman.com (Scan for Video) 100% White Labeling SKU: #CHM3O Available MADE IN USA **Quantity Discounts Available - Outfit Your Whole Crew!** Low Voltage Mounting Brackets (Mud Rings) Adjustable 1/4" to 1" Depth Available in Black or Blue Perfect Match to our Blue 10 Pack Template SKU: #CHM3K SKU: #CHM1P \*While Supplies last Universal Cable Pulling 15' Fiberglass Fish Butt-Set Banjo Adapter Elbow

Order by Phone: (630) 980-7710

**#CID8D** 

**#TOH40** 

**#TOO6G** 

## 66 Blocks & Accessories

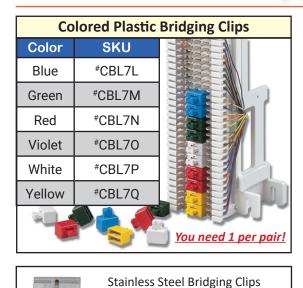


Our 66 Block Kits Include 89 D Bracket & Clear Plastic Cover

66M Block Kits (Block, 89 D Bracket & Cover)			
Style	SKU		
Standard (No Amp)	#CBL6A		
1 Female Amp	#CBL6B		
1 Male Amp	#CBL6C		
2 Female Amps	<sup>#</sup> CBL6E		
2 Male Amps	#CBL6D		

#### **Protect Your Blocks from Service Calls!**

Hinged Covers		
Color	SKU	10.
Clear	#CBL8K	
Blue	#CBL8L	2442
Orange	#CBL8M	Hinged S
White	#CBL8N	The



(100 per bag) **#CBL7K** 

#### **RJ-71C Block**

12 Pair Network Interface Block with Shorting Plug



sandman.con

stallation Tools & Accessories

Order Online at www.sandman.com

## **25 Pair Telco Cables**



Ready to Ship 25 Pair Telco Assemblies (in case you need them *tomorrow*!)

- 5', 10', 15', 20' and 25' Lengths
- 90 Degree Male / Female Amps
- 10', 15', 25' QWIK Cables



See our in-stock ready to ship configurations

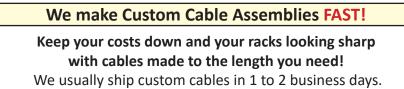


#### These make installs go FAST!

Stocked QWIK Cables for:

- Avaya 
   Samsung 
   NEC
- Shoretel 
   Toshiba 
   Vertical
- Panasonic and More...





#### **Custom Telco Cables:**

- 25 Pair 50 Pair 100 Pair
- CAT3 PVC CAT5E Plenum
- 90° 110° 180° Bail Lock
- Opposite Entry
   Custom Pin-Outs
- Custom Lengths You Name It!



By Phone: (630) 980-7710

By Email: sales@sandman.com



## Handset & Line Cords



Quality Handset Cords Won't tangle as easily as cheaper cords!

#### **Replacement Handset Cords**

7', 12' & 25' **Stretched** Lengths Shiny (Gloss) Black, Flat Black, Charcoal Gray, White, Off-White Ash, Ivory, Light Gray, Cherry Red *and more...* 

## Yes... we make custom handset & line cords too!



Order Online at www.sandman.com

Custom Cable Assemblies

## **Specialty Handsets**

## We manufacture the largest selection of Specialty Handsets in the world!

Our handset production database has build information for over 1,500 makes and models of business phones. Whether you just need a replacement handset or more advanced features such as **amplified**, **push-to-talk** or **noise cancelling**, give us a call and we'll let you know if we can build it.

#### We make Handsets Compatible with:

- AT&T / Lucent / Avaya / G3 / Definity / Partner / Merlin
- Northern Telecom / NT / Nortel / Norstar / Meridian
- Cisco Polycom NEC / Nitsuko / TIE Vodavi / Vertical
- Toshiba Panasonic ESI / Estech Samsung
- Comdial / Stromberg Carlson 
   ITT / Cortelco
- Atlas / Key System US
   Inter-tel / Mitel
   ...and LOTS more!

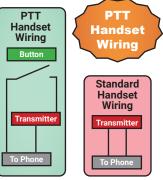
#### Push-To-Talk Handsets

- For Secure Environments
- Phyiscally Disconnects Transmit Circuit
- Mitigate Eavesdropping Risks
- Required by Many Government Agencies
- Multiple Switch Options

Cisco 7800/8800 Series Push-To-Talk with Momentary Button Also Available in Push-To-Mute!



Avaya 9600 Series Push-To-Talk with Non-Momentary Rocker



## <u>Switch Types</u>:

**Momentary switches** revert to their default state when the user releases them (most secure).

Non-Momentary switches remain on or off as toggled by the user.

## **Specialty Handsets**



AT&T Noise Cancelling Handset

## **Noise Cancelling Handsets**

**Noise Cancelling Handsets** are designed to help eliminate background noise and prevent it from being transmitted through the handset.

They work wonders on noisy factory floors, in busy restaurants and loud call centers.

By adding a second sound port and special **noise-cancelling microphone** the handset can differentiate between the speaker and background noise, **improving communication**.



They're also great at Eliminating Paging Feedback!

#### **Amplified Handsets**

**Amplified Handsets** boost the receiver volume level and are great for individuals who are hard of hearing. If the environment is loud, a noise-cancelling handset is generally a better choice since an amplified handset may amplify the noise in the handset's sidetone.

#### Kiosk, PC & Visitation Handsets

We custom build special application handsets for Kiosks, PCs and Prison Visitation. Armored cables add security and durability for public use applications.

#### Common applications include:

- Public Kiosks & Museum Exhibits
- Pay Phones
- Intercoms
- Trading Turrets
- 911 Dispatch Consoles
- Prison Visitation Handsets

Armored Cable Visitation / Inmate Handset

Order Online at www.sandman.com

Call

or Email

us for a Quote! andman.com

## **Analog Telephones & Dialers**



2500 Style Desk Phones with Amplified Handset		
Style	SKU	
Black with Keypad	#TEL1G	
Red with Keypad	#TEL1H	
Ivory with Keypad	#TEL1I	
Black No-Dial	#TEL1J	



	Ivory with Keypad	#TEL1I
	Black No-Dial	#TEL1J
	Red No-Dial	#TEL1K
0	Ivory No-Dial	#TEL1L
2554 Stude Mall Dk		
2554 Style Wall Ph		R. A
with Amplified Ha	ndset 🔰	

with Amplified Handset			
Style	SKU		
Black with Keypad	#TEL1A		
Red with Keypad	#TEL1B		
Ivory with Keypad	#TEL1C		
Black No-Dial	#TEL1D		
Red No-Dial	#TEL1E		
Ivory No-Dial	#TEL1F		







#### **Don't Forget a Dialer**



We can install it inside our 2500 / 2554 phones!

Small Enough to Fit Almost Anywhere...



Boost Handset Volume

 Compatible with Most Modern Phones In-Line Handset Amplifier

- Connects in-line between the phone and handset
- Volume Adjustment Wheel
- Mute Button
- AC or Battery or USB Powered
- Includes USB Cord & Power Cube

#### SKU: #XMT9A



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elephones & Accessories

## **Telecom Troubleshooting Devices**



## Surge Protection / Relays / ATA

## Maximum Lightning Protection

- Dual Stage Protection for Over Current and Over Voltage
- Self Resetting Fuse
- Available for Analog Lines, T1, T3 and 100 Base-T
- 66 Block & Modular versions available

## Even the best surge protectors are useless without a good ground!



MLP-270

66 Block Protector

#KIT10



Tech Devices

10' AC Ground Plug w/ 10 Gauge Wire #KIT1M

66 Block Ground Bus & Lug

0



Relay Closure on Ring Voltage

Modular Ring Relay **#CID2L** 



Relay Closure on Line In-Use

Modular Line In-Use Relay **#CID2N** 



**#KIT1N** 

VOX Activated In-Use Relay

Headset In-Use Relay **#PAP7E** 

## Echo Stopper™

- Eliminates VoIP
   Echo
  - Adjustable
     Impedance
     Matcher
  - Solves DTMF Issues



## SKU: #WAL5F



## ATA Features:

- (2) FXS Ports
- WAN Port
- (2) LAN Ports
- Power Supply



2 FXS Port Analog Telephone Adapter

#### The Most Compatible ATA We've Found!



- Works great for fax machines
- Programmable as Ringdown / Line Simulator from FXS1 to FXS2
- Configurable Loop Current, Ring Voltage, CPC & More!
- SIP Account Required for VoIP Use

## Order Online at www.sandman.com

## **Knowledgebase Highlights**

Sometimes figuring out where to start is the hardest part. Our Knowledgebase contains in-depth technical articles on common problems telecom technicians encounter in the field.

Highlights of some of our most popular articles are below, scan the QR code at the bottom to view our Knowledgebase online.

- Telephone Line Diagnostics Learn to take line voltage readings and diagnose line problems
- Loop Current & Circuit Loss Fix "unfixable" problems caused by abnormal loop current
- Echo and DTMF Bulletin Fix VoIP echo and DTMF tone recognition problems
- Fire Alarm "Trouble" Bulletin Solve alarm "Trouble" codes caused by irregular line voltage
- Surge Protection Learn to protect your equipment from lightning storms
- Electrical Grounding Bulletin A bad ground can cause strange problems and equipment loss
- Longitudinal Imbalance When all else fails, a longitudinal imbalance may be at fault

- Ring Voltage Tech Bulletin Learn to solve "won't ring" issues and boost ring voltage
- Radio Frequency Interference Eliminate RFI from radio stations and other sources
- Data Noise Elimination Eliminate data noise from lines that can cause malfunctions
- Call Party Control (CPC) Solve problems with lines getting stuck open after calls end
- Telecom Fraud Prevention Prevent telecom fraud and protect your communication infrastructure
- Specialty Handset Types Learn more about noise-cancelling and other specialty handsets
- Telephone History Page Take a trip back in time through the world of telephony



Our *Knowledgebase* is full of in-depth technical articles and is always *free* to view! Scan the QR code to the right or visit: <u>https://www.sandman.com/knowledgebase</u>



## **Telephone Line Diagnostic Table**

Telep	bhone / Line Number >				
Loop Current & Talk Battery					
1	Loop Current DCma Ideal Range (23 to 35DCma)				
2	On-Hook DCV Ideal Range (24 to 50VDC)				
3	Off-Hook DCV Ideal Range (5 to 15VDC)				
AC Ring Voltage & Current					
4	AC Ring Voltage (>75VACRMS)				
5	AC Ring Current Ideal Range (8.5 to 45maAC)				
Induced AC / Longitudinal Imbalance					
6	On-Hook ACV-Tip to Ring (<.5VAC)				
7	On-Hook ACV-Tip to Ground (<.5VAC)				
8	On-Hook ACV-Ring to Ground (<.5VAC)				

The only way to diagnose many problems and compatibility issues on phone lines is to take voltage and current measurements.

When you have a problem, take these measurements on all of the phone lines at the premise. Compare the results to those at other premises with no problems, and the cause of the problem should jump out at you.

Always take measurements at premises where you *aren't* having problems first, so you have a basis of comparison, and a comfort level with your measurements. **Never use a tester for the first time at a premise with a problem!** 

Once you have the measurements that point to the cause of the symptoms, going to battle with the phone company is a lot easier. Even with these measurements, you may have to escalate the trouble ticket, since the repair people at the company may not know what these measurements mean. If you don't want to battle the phone company, we sell devices that can solve many of these issues.

Scan the QR Code to see our articles, videos and related products, or to print more copies of this chart.

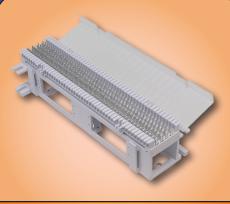


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## **Phones & Dialers**



66 Blocks & Accessories

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VISA

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## https://www.sandman.com

