

Mining Cable

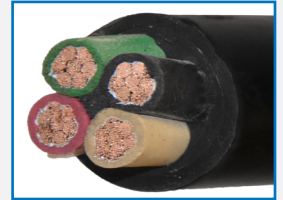
quick reference guide

OMNICABLE
EMPOWERING DISTRIBUTION®



TYPE W POWER - Round Portable, EPR/CPE 2kV, 90°C, 4 Conductor

Designed for use as trailing cables on AC mining equipment: Where a ground-check conductor is not required for fail-safe ground monitoring and induced voltages do not present a problem.



TYPE G-GC POWER - Round Parallel Portable w/Ground-Check, EPR/CPE 2kV, 90°C, 3 Conductor

Designed for use as trailing cables on AC mining equipment: Where ground monitoring is accomplished with a ground-check conductor and induced voltages in the grounding system do not present a hazard.



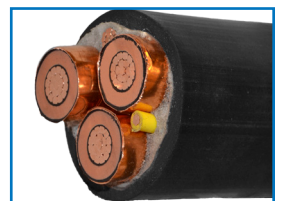
TYPE SHD-GC POWER - Shielded Round Portable w/Ground-Check, EPR/CPE 2kV, 5kV, 8kV, 90°C, 3 Conductor

Designed for use as trailing cables on AC mining equipment: Where a ground-check conductor is required for fail-safe monitoring with Bretby-type cable handling devices on longwall shearers, and where induced voltages in the grounding system will not produce a hazard and on low- and medium-voltage AC circuits where shielding is desired or required.



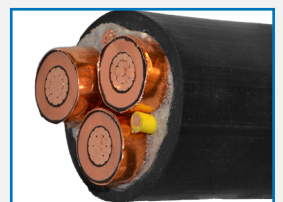
TYPE MP-GC - Mine Power Feeder w/Ground-Check, EPR/CPE 15kV, 90°C, 3 Conductor

Provides high-voltage distribution intended for permanent installations: Designed for use in underground mining and bore holes and in aerial installations, ducts, or direct burial.



TYPE MP-GC - Mine Power Feeder w/Ground-Check, XLPE/PVC 15kV, 90°C, 3 Conductor

Provides high-voltage distribution intended for permanent installations: Designed for use in underground mining and bore holes and in aerial installations, ducts, or direct burial.



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Mining Cable Products & Applications	Type W, G, and G-GC Round and Flat	Type SHD-GC	Type MP-GC
Typical Applications	<ul style="list-style-type: none"> Shuttle Cars Roof Bolters Dewatering Pumps Belt Drives Conveyors Feeder/breakers Battery Chargers 	<ul style="list-style-type: none"> Longwall Shearers Continuous Miners Draglines Electric Shovels Load Center to Equipment 	<ul style="list-style-type: none"> Power distribution Substation to Load Center
Cable Type and Voltage Ratings	<ul style="list-style-type: none"> All cables are EPR/CPE Rated at 2kV 	<ul style="list-style-type: none"> All cables are EPR/CPE Rated 2kV through 25kV 	<ul style="list-style-type: none"> XLP/PVC EPR/CPE Rated 5kV through 25kV
Most Commonly Utilized Cables	<ul style="list-style-type: none"> 2/4 and 4/4 Round W 2/3 and 4/3 G-GC 2/0-3 and 4/0-3 G-GC Other sizes are primarily make to order 	<ul style="list-style-type: none"> 2/3 2kV to 15kV SHD-GC 2/0-3 2kV to 15kV SHD-GC 4/0-3 2kV to 15kV SHD-GC Other sizes are primarily make to order 	<ul style="list-style-type: none"> 2/0-3 8KV and 15KV MP-GC 4/0-3 8KV and 15KV MP-GC 350/3 8KV and 15KV MP-GC Available in EPR/CPE or XLP/PVC Other sizes are primarily make to order

Mining vs. Industrial Grade	Anaconda Mining Grade (Types W, G, G-GC and SHD-GC)	Industrial Grade (Types W, G, and G-GC)
Conductor	<ul style="list-style-type: none"> Extra flexible Tinned copper Design optimized for continuous and severe flexing 	<ul style="list-style-type: none"> Flexible design Bare copper Designed for moderate and intermittent flexing
Insulation	<ul style="list-style-type: none"> Extra heavy duty Ethylene Propylene Rubber (EPR) Designed to work with jacket to achieve Extra heavy duty service listing 	<ul style="list-style-type: none"> Heavy duty Ethylene Propylene Rubber (EPR) Designed to work with jacket to achieve heavy duty service listing
Jacket	<ul style="list-style-type: none"> Dual layer, reinforced lead cured CPE ICEA extra heavy duty rated Extremely cut, tear, and abrasion resistance 	<ul style="list-style-type: none"> Single layer, non reinforced, CV cured CPE ICEA heavy duty rated Moderate cut, tear, and abrasion resistance
Cable Ratings	<ul style="list-style-type: none"> UL listings not required for mining grade cables Types W, G, G-GC available in round and flat designs ICEA extra heavy duty CSA certified MSHA listed (Mine Safety Health Administration) -50C cold bend Designed specifically for extremely harsh mining applications 	<ul style="list-style-type: none"> UL and CSA listed Available in Type W, G, and G-GC Round only ICEA heavy duty MSHA listed (Mine Safety Health Administration) -40C cold bend Designed as a general purpose flexible portable power cable

Mining vs. Industrial Grade Application Chart

APPLICATION	INDUSTRIAL GRADE CABLES	MINING GRADE CABLES
UNDERGROUND MINING APPLICATIONS		
Longwall Shearers		X
Shuttle Cars		X
Bridge Conveyors		X
High-Voltage Distribution		X
Cutting Machines		X
Loading Machines		X
Continuous Miners		X
Drills		X
Roof Bolters		X
Locomotives		X
Hydraulic Pumps		X
Sectionalized Portable Power		X
Borehole Cables		X
Pumps		X
Accessory Equipment	X	X
Two-Conductor Welding	X	X
Belt Drives	X	X
Hydraulic Power Packs	X	X
Belt Take-Ups	X	X
Battery Changers	X	X
Conveyor Feeder/Breakers	X	X
SURFACE MINING APPLICATIONS		
Drills		X
Stripping Shovels		X
Loading Shovels		X
Drag Lines		X
Pumps	X	X
Accessory Equipment	X	X

Products

Aluminum Cable

Aluminum Conductor Steel Reinforced Feeder MC
Mobile Home Feeder
Primary URD TR-XLP 15kV/25kV/35kV
Secondary Underground Distribution
Service Entrance - SER/SEU
XHHW Wire
XLP Triplex Service Drop Cable
XLP Triplex/Quadruplex Secondary URD

Armored Cable – 300V - 15kV

Aluminum Interlocked Armor
Continuous Corrugated Weld
Teck 90
Control, Power, and Instrumentation
Medium Voltage
Hazardous/Non-hazardous Location Fittings

Bare Copper

Stranded and Solid
Tinned Available

Belden – Full Line Distributor

Classics
Industrial
Variable Frequency Drive (VFD)
Fiber Optics
MarineTuff®
Industrial Ethernet
New Generation®

Building Wire

TFFN/TFN, THHN/THWN, THW
XLP/USE-2
XHHW-2/XHHW-2 CT
Solid or Stranded
Cathodic Protection
Photovoltaic
All Colors Available

Cable Accessories

Fittings – Tray, Portable Cord, Armor
Medium Voltage Splices & Terminations
LV Splices, Taps, Motor Connection Kits
Compression Connectors & Terminals
200 AMP/600 AMP Elbows & Accessories
Photocontrol & Lighting Accessories

Fiber Optic

Corning® Glass
Plenum and Riser
Tight Buffer and Loose Tube
Multimode and Single Mode
Indoor, Indoor/Outdoor, Outside Plant
Armored Versions Available

Flexible & Portable Cord

Rubber Cord:
SJOOW 300V, SOOW 600V
Plastic Cord:
SJEOW/SJTOOW 300V, SEOW/STOOW 600V,
STOW 600V, SJT 300V
Multi-conductor
Various Colors
Type G, GG-C, SHD-GC
Type W
Bus Drop
Diesel Locomotive (DLO)
Welding Cable – Various Colors
Festoon Cable
Submersible Pump Cable
Jumper Cable – 5kV to 15kV
SDN® – Reel & Pendant
Type P – Marine Cable

High-Temp Lead Wire

150°C through 450°C
SF-2, SFF-2 in Colors (UL 150°C-200°C)
TGGT (UL 250°C)
MG (UL 450°C)
SRML, SRG, SRK, SRGT (UL 150°C-200°C)
Teflon – E, EE, K, KK, PFA, Tefzel®
(UL 150°C-200°C)

Hook-Up Wire

PVC (UL 1007/1015/1061)
Irradiated PVC (UL 1429/1430/1431)
Neoprene Lead Wire (UL 3044/3046/3048)
Military Spec (M16878, M22759)
EPDM
SIS – VW-1 – All Colors

IMSA

19-1 and 20-1 Traffic Signal Cable
50-2 Lead-In
51-1, 51-3, 51-5 Loop Detector

Instrumentation – 300V & 600V

PVC, XLP, FREP, CPE, LSZH, and More
Individual and Overall Shields
Tinned and Bare Copper
Pairs and Triads

Medium Voltage – 2.4kV - 35kV

Copper and Aluminum Conductors
Single and Multi-conductor
Airport Lighting – FAA L824C
Splices, Terminations, Elbows

Mining Cable

Type G-GGC
Type MP-GC (Mine Power Feeder)
Type SHD-GC
Type W

Sound, Security, and Alarm

Thermostat
Plenum, CL2P, CMP
Coax – RG59, RG6, RG6 Quad
Fire Alarm FPLR, FPLP Article 725/760/800
Lighting Cable – Crestron & Lutron Systems

Telephone & Data

Indoor/Outdoor
High Speed Data – Category Cables
Direct Burial
Aerial
Figure 8
TelcoFlex®

Tray Cable – 600V

PVC, XLP, FREP, CPE, LSZH, and More
Shielded and Non-shielded
Control and Power Sizes
Standard & Special Color Codes Available
Fittings Available

Variable Frequency Drive (VFD)

3 and 4 Conductor
16 AWG to 500 MCM
Foil Braid, Copper Tape Shields
600V - 2000V
Armored Versions Available

2-Hour Fire Rated Cables

VITALink® MC
Circuit Integrity Cable (CIC)

Services

Bundling
Cable Management Project

Custom Constructions
Dyeing
Emergency Services (24/7/365)

Paralleling
Lashing
Stripping