**TECHNICAL CROSS-REFERENCE GUIDE · 2026 EDITION | MALAYSIA MEP, DATA CENTER & OIL/GAS**

# China GB/T ↔ Malaysia BS / MS / IEC Special Industrial Cable Guide

Engineering Alignment for Johor/KL Data Centers, Sarawak/Sabah Oil & Gas, Port Cranes & Substations

BS 6387 CWZ Fire-Resistant · BS 6622 / IEC 60502-2 MV SWA · IEEE 45 Oilfield · NSHTÖU Reeling · Form E




| EST. 1996 | 40,000+ m² | 3 SUBSIDIARIES | 12–24 HOURS |
|---|---|---|---|
| 30 Years Cable Manufacturing | Quanzhou, Fujian Production Base | Special & Power Cable Lines | Factory Quote & BOQ Review |

About This Engineering Guide: Built by KEXINGYU Cable Group for Malaysian MEP contractors, Johor & Klang Valley data center integrators, offshore oil & gas suppliers, port operators, and wholesale distributors. Compare Chinese factory special cable constructions directly against BS, MS, and IEC standards — with ASEAN Form E (0% preferential duty) and SGS / Bureau Veritas inspection support.

**KEXINGYU CABLE GROUP CO., LTD. | https://kxy-group.com/**

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# GB/T ↔ BS / MS / IEC Special & Project Cable Cross-Reference

High-margin engineered cables aligned to Malaysian data center, port, industrial, and offshore project specifications.

| Application / Series | KEXINGYU / GB / DIN Type | Malaysia BS / MS / IEC Equiv. | Key Performance Rating | Target Malaysian Projects |
|---|---|---|---|---|
| **Data Center & Fire Alarm Circuits** | LI-HCH FE180 LSZH (Unarmoured / OEM SWA) | BS 6387 CWZ / BS 5839-1 IEC 60331-21 / IEC 60754 | 300/500 V, 180-min fire integrity, ≥85% braid, LSZH | Johor & KL hyperscale data centers, BMS & fire safety |
| **Medium Voltage Armoured Feeders** | MV XLPE AWA/SWA (25–630 mm², 1C & 3C) | BS 6622 / BS 7870 IEC 60502-2 (Cu/XLPE/SWA) | 3.6/6 kV to 18/30(36) kV (11 kV & 33 kV utility) | Data center incoming 11/33kV, substations & industrial parks |
| **Offshore Oil & Gas Drilling Power** | 535MCM Oil-Resistant LSZH EPR (271 mm²) | IEEE 45 / IEC 61892-4 NEK 606 Mud/Oil Resistant | 0.6/2 kV, 125°C continuous, salt-spray & mud resistant | Sabah & Sarawak offshore platforms & coastal refineries |
| **Port Crane & Heavy Drum Reeling** | NSHTÖU Heavy Reeling (Anti-Twist Textile Braid) | DIN VDE 0250-814 BS 6360 / IEC 60228 Cl. 5 | 0.6/1 kV, up to 120 m/min, oil/UV/ozone neoprene sheath | Port Klang & PTP STS/RTG cranes & bulk conveyors |
| **Chemical & Coastal Corrosion -Resistant** | Shielded Drag-Chain TPU (300/500V & 0.6/1kV OEM) | IEC 60228 Cl. 6 / IEC 60332 Oil & Acid Resistant TPU | -45°C to +90°C, ≥80% braid, 168h acid/alkali tested | Petrochemical plants, palm-oil refineries & sewage facilities |
| **Deep-Well & Mining Submersible Pump** | JHS / JHSB 500m Waterproof EPDM/PUR | H07RN8-F / IEC 60245 BS 6360 / IEC 60228 Cl. 5 | 0.6/1 kV & 1.6/3 kV, 500m immersion verified | Mining dewatering, aquaculture & municipal water pumps |
| **High-Temp Shielded Silicone Control** | SiHF-C-Si Double-Sheath (0.5–25 mm², 2–25 cores) | DIN VDE 0295 / BS 6360 IEC 60754-1 Halogen-Free | 300/500 V, -60°C~+180°C (+220°C peak), 85% braid | Steel mills, glass, furnaces, semiconductor & power plants |
| **Robotics & CNC Automation** | ANRBT900DP-SP Composite PUR/TPU | VDE 0293-308 / IEC 60332 High-Flex ±360° Torsion | 0.08–2.5 mm² hybrid cores, dual overall + pair shield | Penang / Kulim electronics & automotive automation lines |
| **Wholesale LV Power & Building Wire** | YJV / YJY / BV / BVR (CCC IEC 60227-3) | IEC 60502-1 / BS 5467 BS 6004 / MS 2112 equiv. | 450/750 V & 0.6/1 kV, bulk container supply | Distributor restocking & project package consolidation |

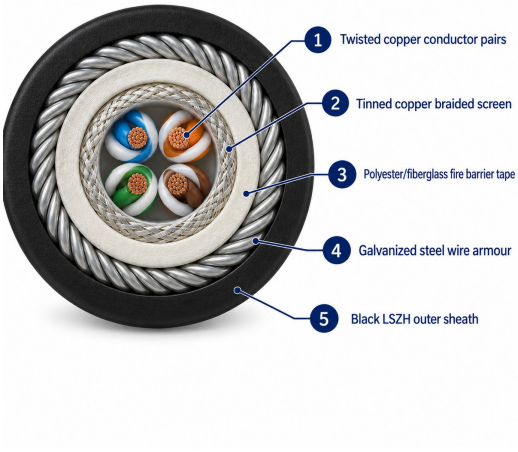
*Compliance Note: KEXINGYU manufactures to IEC / BS / DIN VDE technical specifications and supports third-party SGS/BV type testing and partner compliance coordination for destination project approval.*

# Conductor Conversion (mm² ↔ AWG / MCM) & Flagship Construction

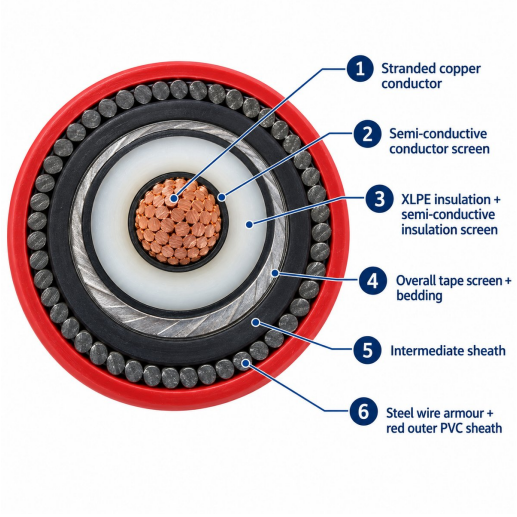
Quick metric-to-imperial reference for Malaysian MEP consultants, offshore engineers, and substation contractors.

| IEC / GB (mm²) | Nearest AWG / MCM | Class 2 / Cl. 5 Typical Use | IEC / GB (mm²) | Nearest AWG / MCM | Typical Application |
|---|---|---|---|---|---|
| **0.5 mm²** | AWG 20 | Shielded control & silicone signal | 25 mm² | AWG 4 | LV/MV feeder & reeling |
| **0.75 mm²** | AWG 18 | FE180 fire alarm / TPU control | 35 mm² | AWG 2 | Submersible & industrial power |
| **1.0 mm²** | AWG 17 | Instrument & crane control | 50 mm² | AWG 1 / 1/0 | MV XLPE / heavy reeling |
| **1.5 mm²** | AWG 16 | Fire-resistant / lighting / control | 70 mm² | 2/0 AWG | Substations & oilfield feeders |
| **2.5 mm²** | AWG 14 | Power control / submersible pump | 95 mm² | 3/0 AWG | 6kV–35kV MV armoured |
| **4.0 mm²** | AWG 12 | Pump motors / heavy control | 120 mm² | 4/0 AWG | Utility & data center MV |
| **6.0 mm²** | AWG 10 | Submersible & mobile power | 150–240 mm² | 300–500 MCM | Main industrial distribution |
| **10–16 mm²** | AWG 8 – 6 | 3-phase motor / crane reels | 271–630 mm² | 535–1250 MCM | Drilling rigs (535MCM) & HV/MV |

## Malaysia Flagship Constructions: BS 6387 / FE180 Fire-Resistant & 11–33kV MV XLPE SWA




**LI-HCH FE180 BS 6387 Screened Cable (Unarmoured Std / Optional SWA)**




**Medium Voltage XLPE Steel Wire Armoured Cable (6kV–36kV, IEC 60502-2)**

*LI-HCH FE180 is supplied standard unarmoured (≥85% tinned copper braid) with optional galvanized steel wire armour (OEM customizable, shown above).*

# Factory Proof, ASEAN Form E & Malaysia Sea Freight Support

Transparent Quanzhou factory production, zero-duty ASEAN Form E origin documentation, and fast sea transit to Port Klang & Pasir Gudang.



**Real Quanzhou Stranding Line**



**Export Wooden Drum Container Loading**


CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

Certificate No.: 2022170105004698

NAME AND ADDRESS OF THE APPLIANT

NAME AND ADDRESS OF THE MANUFACTURER

NAME AND ADDRESS OF THE FACTORY

NAME, MODEL AND SPECIFICATION

STANDARD AND TECHNICAL REQUIREMENT FOR THE PRODUCTS

**Official English CCC Cert (IEC 60227-3)**

## Quality Assurance, Testing & Malaysian Import Support

• ASEAN Form E Preferential Tariff: Official China–ASEAN Certificate of Origin (Form E) issued with export shipments to help Malaysian importers qualify for 0% preferential import duty.

• Verified Factory Credentials: Est. 1996, 40,000+ m², 3 subsidiaries. Official English CCC Certificate No. 2022170105004698 (citing IEC 60227-3:1997, valid to Sep 2027) & PICC product liability insurance.

• Third-Party Witness Testing (SGS / BV / Intertek): Factory routine PD, HV withstand, spark, and flame/smoke reports supplied per batch; third-party lab testing & project compliance support available on order.

• Fast Maritime Delivery: Direct export shipping from Xiamen / Quanzhou ports to Port Klang, Pasir Gudang (Johor), Penang, and Bintulu/Kota Kinabalu on ISPM-15 fumigation-free wooden/steel-wood drums.

## Request Your Malaysia Project Quotation (12–24h Factory Turnaround)

Send your BOQ or cable schedule (Excel/PDF) via Email or WhatsApp with:
1) Standard required (BS 6387 / BS 6622 / IEC 60502 / NEK 606) 2) Voltage, core count & size (mm²)
3) Armour / LSZH / sheath color & reel length 4) Total meters & destination port (FOB Xiamen / CIF Port Klang / Pasir Gudang)
Direct Export Desk: info@kxy-group.com | WhatsApp: +86 136 1591 2663 | Web: https://kxy-group.com/products/cables-wires/special-wire-and-cable/