



POWER CABLE REQUEST FOR QUOTATION (RFQ)

ENGINEERING CHECKLIST & SPECIFICATION

Document Type: Technical & Commercial RFQ Specification Sheet

Standard Reference: IEC 60502-1 / IEC 60502-2 / IEC 60228

Issued By: Huanghe Cable | **Website:** www.huanghecables.com

Target Destination / Project: [Project Name / Country]

SECTION 1: SYSTEM & ELECTRICAL PARAMETERS

Operating System Voltage _____ kV AC / DC

Standard Voltage Designation
☐ 0.6/1 (1.2) kV ☐ 3.6/6 (7.2) kV
☐ 6/10 (12) kV ☐ 6.35/11 (12) kV
☐ 12/20 (24) kV ☐ 18/30 (36) kV
☐ Other: _____

System Frequency ☐ 50 Hz ☐ 60 Hz

System Earthing Type
☐ Solidly Earthed ☐ Unearthed
☐ Impedance/Resistance Earthed

Max. System Fault Duration _____ Seconds

SECTION 2: CABLE CONSTRUCTION SPECIFICATIONS

2.1 Conductor Details

Conductor Material ☐ Plain Annealed Copper (Cu) ☐ Aluminium (Al)

Nominal Cross-Sectional Area _____ mm²

Number of Cores ☐ 1C ☐ 3C ☐ 4C ☐ 3C+1E ☐ Other: _____

Conductor Class (IEC 60228)
☐ Class 1 (Solid) ☐ Class 2 (Stranded)
☐ Class 5 (Flexible)

Conductor Shape
☐ Circular Non-Compacted ☐ Circular Compacted
☐ Sector-Shaped (3C/4C LV/MV)

2.2 Insulation & Screening

Insulation Material
☐ XLPE (Cross-linked Polyethylene) ☐ PVC
☐ EPR (Ethylene Propylene Rubber)

Insulation Color Coding
☐ Red/Yellow/Blue/Black (Standard)
☐ Brown/Black/Grey/Blue ☐ Numbered Cores

Metallic Screen (For MV)

- ☐ Copper Tape Screen (Helical overlap)
☐ Copper Wire Screen (_____ mm² / kA rating)

2.3 Armouring & Mechanical Protection

Armour Type

- ☐ Unarmoured
☐ Galvanized Steel Wire Armour (SWA) - Multi-Core
☐ Galvanized Steel Tape Armour (STA) - Multi-Core
☐ Aluminium Wire Armour (AWA) - Single-Core AC
☐ Aluminium Tape Armour (ATA) - Single-Core AC

2.4 Sheathing & Environmental Attributes

Outer Sheath Material

- ☐ PVC (ST1 / ST2) ☐ HDPE (High-Density Polyethylene)
☐ LSZH / LSFH (Low Smoke Zero Halogen)

Outer Sheath Color

- ☐ Black (Standard) ☐ Red ☐ Other: _____

Flame Retardancy

- ☐ IEC 60332-1 (Single Cable)
☐ IEC 60332-3-22 (Category A Bunched)

Special Protection

- ☐ UV / Sunlight Resistant ☐ Anti-Termite / Anti-Rodent
☐ Water Blocking (Tape / Powder)

SECTION 3: INSTALLATION & OPERATING CONDITIONS

Installation Environment

- ☐ Direct Buried in Ground
☐ In Underground Ducts / Pipes
☐ Free Air / On Cable Trays / Ladder

Max. Ambient Air Temperature

_____ °C

Max. Ground Temperature

_____ °C

Soil Thermal Resistivity

- ☐ 1.0 K·m/W ☐ 1.2 K·m/W ☐ 1.5 K·m/W

Installation Depth (Ground)

_____ Meters

Continuous Load Current (Req.)

_____ Amperes (A)

Permissible Voltage Drop

Max. _____ %

SECTION 4: TESTING, STANDARDS & CERTIFICATION

Governing Standard

- ☐ IEC 60502-1 / IEC 60502-2
☐ BS 6622 / BS 7835 / BS 5467
☐ AS/NZS 1429.1
☐ Other: _____

Testing & Inspection

- ☐ Standard Factory Acceptance Test (FAT)
☐ Third-Party Inspection (SGS/TÜV/Intertek)
☐ Valid Type Test Report Required with Quote

SECTION 5: QUANTITY, PACKAGING & LOGISTICS

Total Cable Quantity Required _____ Meters (Tolerance: $\pm$ _____ %)

Delivery Drum Length ☐ _____ Meters per Drum
☐ Standard Continuous Drum Lengths

Drum Type ☐ Wooden Drums (Fumigated)
☐ Steel-Wooden Drums
☐ Non-Returnable Steel Drums

Delivery Incoterms ☐ FOB ☐ CIF ☐ CFR ☐ DDP

Port of Destination _____

Target Delivery Date _____ / _____ / 202____

BUYER / COMPANY CONTACT DETAILS

Company Name _____

Contact Person / Title _____

Email Address _____

Phone / WhatsApp _____

Project Name _____

Please complete all applicable fields and return this form with your quotation. Fields left blank may be quoted per standard manufacturer practice.

Buyer Signature / Company Stamp

Date

Supplier Signature / Company Stamp