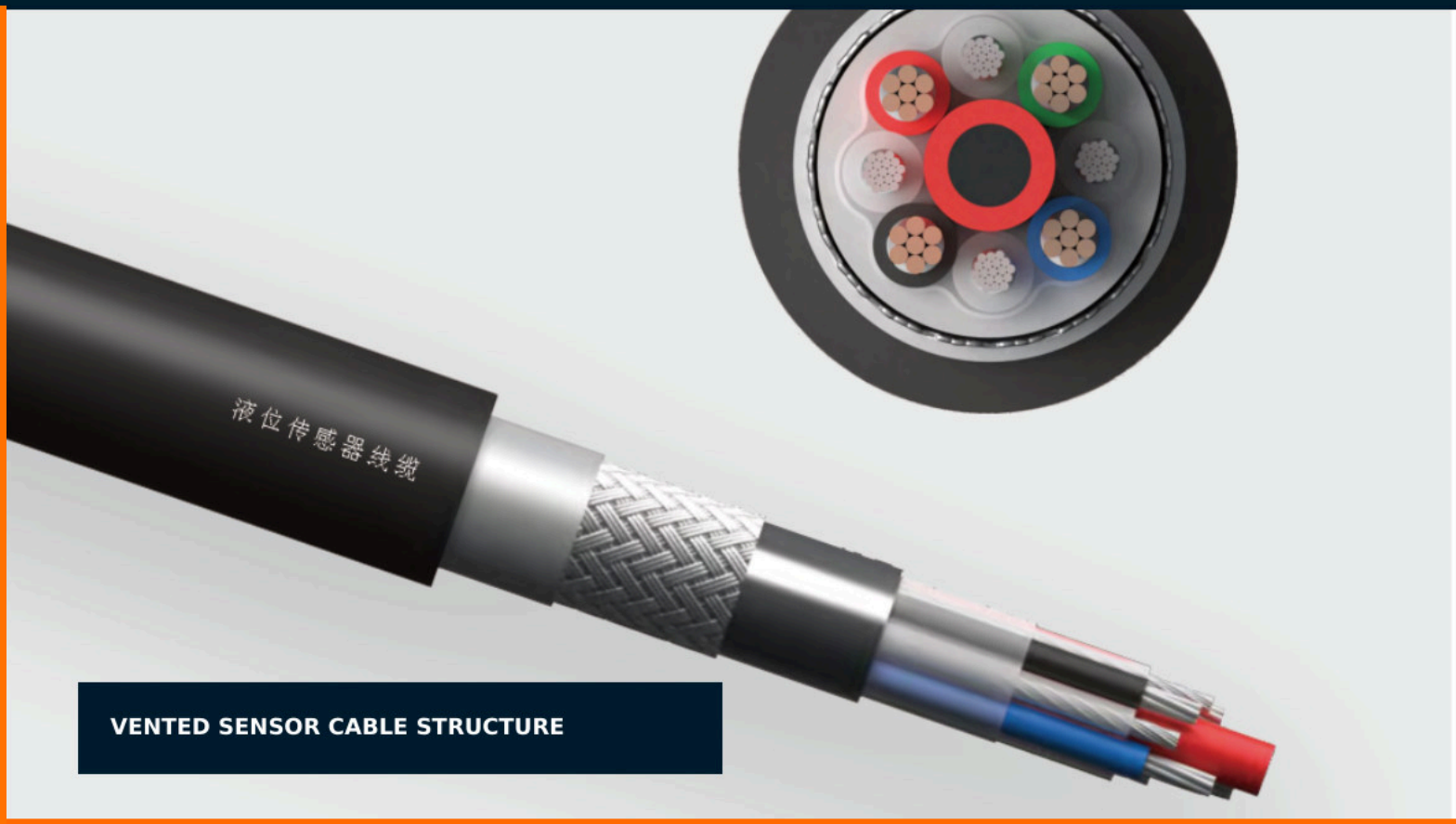
SPARTA CHARGER

INDUSTRIAL / SENSOR / AUTOMOTIVE / ENERGY

Your Cable. Engineered for Your Application.



VENTED SENSOR CABLE STRUCTURE

PRODUCT CATALOGUE

2026

Sensor cables / Electronic wires / High-voltage cables
High-temperature wires / Automotive wires / Wiring harnesses

PRODUCT FINDER

A broader range.
A clearer selection.

Core sensor and temperature-measurement products first, followed by electronic, automotive, energy and wiring solutions.

Product family	Models / configurations	Page
Vented liquid-level sensor cables	DQYDP / DQYVP / DQYYP / DQYUP / DQYFP / DQFFP	03
Pressure & weighing sensor cables	Application-specific configurations	04
High-temperature lead wires	AF-200 / AF-250	05-06
Thermocouple cables	BC / SC / KC / KX / EX / JX / TX	07-09
EV & energy-storage cables	EV / EVP construction options	10
Fluoropolymer electronic wires	10064 / 1330 / 1331 / 1332 / 1333	11
PVC electronic hook-up wires	1007 / 1571 / 1015 / 1061 / 10269 / 11627	12
Parallel & specialty wires	4411 / 4413 / 2468 / 3385 / 3132	13
Shielded multicore cables	2464 / 2517 / 2725	14
Data & audio signal cables	20276 / 2547	15
GB single-core & twisted wires	BV / BVR / RV / RV-90 / RVS / AVR / YG	16
GB sheathed & screened cables	RVV / RVVP / RVVPS / AVVR	17
Automotive low-voltage wires	FLRY-A / FLRY-B / FLR6Y-A / AVS	18
Terminal wires & harnesses	Cut, terminated and branched configurations	19
Selection & enquiries	Application checklist / Contact	20-21

Liquid-level sensor cables

Signal conductors with an integrated vent path for compatible hydrostatic sensing assemblies.



Representative family photograph; construction varies by selected model.

Models	Published construction
DQYDP / DQYVP	2-8 cores x 0.2 mm²; stranding 7/0.2 or 12/0.15 mm
DQYYP / DQYUP	2-8 cores x 0.2 mm²; stranding 7/0.2 or 12/0.15 mm
DQYFP	2-8 cores x 0.2 mm²; stranding 7/0.2 or 12/0.15 mm
DQFFP	2-8 cores x 0.2 mm²; stranding 7/0.2 mm
Shared dimensions	Finished OD 7.3 ± 0.20 mm; core OD 1.25 ± 0.05 mm; vent 1.1 / 2.2 ± 0.1 mm; jacket thickness 0.35 mm

APPLICATION VALUE

An atmospheric reference path supports pressure-based water-depth, tank and liquid-level measurement.

SPECIFY FOR QUOTATION

Media, immersion conditions, jacket material, shielding, temperature, core count and vent ID/OD interpretation.

Catalogue references are selection guidance. Final construction, ratings and compliance documents are confirmed against the ordered model and approved data sheet.

Pressure & weighing sensor cable range.

Cable specifications below; photographs show sensors and application contexts.



APPLICATION ILLUSTRATION



APPLICATION ILLUSTRATION



APPLICATION ILLUSTRATION

Catalogue configuration	Core count	Conductor size	Listed jacket
Configuration 1	2-6	0.12 mm²	PVC / PE / TPU
Configuration 2	2-6	0.2 mm²	Silicone / fluoropolymer
Configuration 3	4-6	0.35 mm²	Silicone

WHY THIS RANGE

Match conductor size, core count and jacket to the device termination and routing space. The factory literature includes pressure-sensor and weighing-sensor cable applications.

ORDERING DETAILS

Specify shielding, maximum outside diameter, operating temperature, fluid exposure, flex requirement and termination. No distinct model codes are provided for this family in the source catalogue.

AF-200 / FEP insulated wire

-65°C to +200°C | Catalogue reference: GJB773A/11A-2000

HEAT-EXPOSED EQUIPMENT LEADS

A FEP insulation option for industrial equipment and instrument leads where temperature is a primary selection factor.



CSA / mm²	Stranding / n × mm	Finished OD / mm
0.05	7/0.10	0.70 ± 0.05
0.08	7/0.12	0.76 ± 0.05
0.12	7/0.15	0.95 ± 0.05
0.20	7/0.20	1.10 ± 0.05
0.35	19/0.15	1.30 ± 0.05
0.50	19/0.18	1.50 ± 0.05
0.75	19/0.23	1.70 ± 0.05
1.00	19/0.26	1.80 ± 0.05
1.20	19/0.28	2.06 ± 0.08
1.50	19/0.32	2.25 ± 0.08
2.00	19/0.37	2.41 ± 0.08
2.50	37/0.30	3.53 ± 0.10
3.00	37/0.32	3.20 ± 0.25
4.00	37/0.37	3.60 ± 0.25
5.00	37/0.40	3.88 ± 0.25
6.00	37/0.45	4.08 ± 0.10
8.00	133/0.29	5.03 ± 0.10
10.00	49/0.51	5.60 ± 0.25
16.00	49/0.64	6.00 ± 0.25
20.00	49/0.72	6.60 ± 0.25
25.00	49/0.80	7.30 ± 0.25

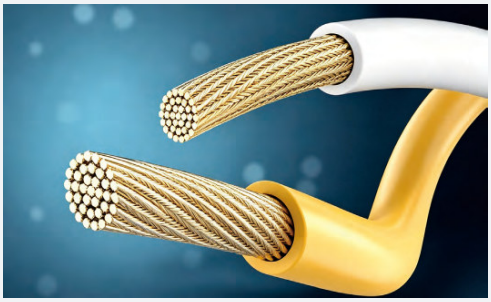
Published dimensions are reference values. Confirm voltage, conductor plating, insulation tolerance and approval requirements.

AF-250 / PFA insulated wire

-65°C to +250°C | Catalogue reference: GJB773A/8A-2000

HEAT-EXPOSED EQUIPMENT LEADS

A PFA insulation option for industrial equipment and instrument leads where temperature is a primary selection factor.



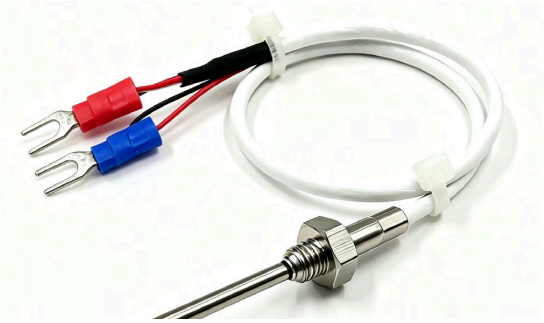
CSA / mm²	Stranding / n × mm	Finished OD / mm
0.05	7/0.10	0.70 ± 0.08
0.08	7/0.12	0.80 ± 0.08
0.12	7/0.15	0.95 ± 0.08
0.20	7/0.20	1.14 ± 0.05
0.35	19/0.16	1.32 ± 0.05
0.50	19/0.18	1.42 ± 0.05
0.60	19/0.20	1.52 ± 0.05
0.75	19/0.23	1.70 ± 0.05
1.00	19/0.26	1.80 ± 0.05
1.20	19/0.28	2.06 ± 0.08
1.50	19/0.32	2.25 ± 0.08
2.00	19/0.37	2.41 ± 0.08
2.50	37/0.30	2.78 ± 0.10
4.00	37/0.37	3.38 ± 0.10
6.00	37/0.45	4.08 ± 0.10

Published dimensions are reference values. Confirm voltage, conductor plating, insulation tolerance and approval requirements.

Thermocouple compensation wire & cable models.

Match the cable alloy system to the thermocouple type and specified tolerance standard.

Correct alloy and polarity selection aligns the extension circuit with the measuring system. Photo: temperature-sensor assembly illustration, not a model-specific cable photo.



Model	Thermocouple	Positive / negative conductor
BC	B	Copper / copper
SC	S	Copper / copper-nickel
KC	K	Copper / constantan

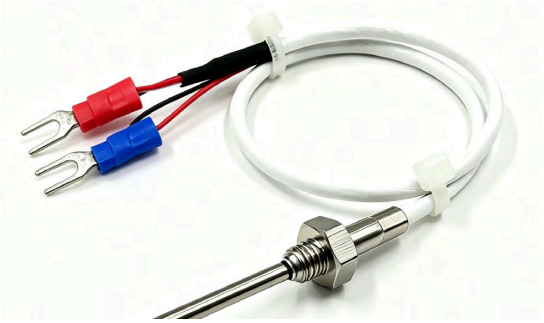
Construction family	Published cable temperature
General type	-20°C to +100°C
FF-GS	-40°C to +250°C
HF4B-GS	-40°C to +380°C

Confirm grade, tolerance class, insulation, shielding and polarity colours against the required standard. Cable temperature ratings are distinct from thermocouple measurement ranges.

Thermocouple extension wire & cable models.

Match the cable alloy system to the thermocouple type and specified tolerance standard.

Correct alloy and polarity selection aligns the extension circuit with the measuring system. Photo: temperature-sensor assembly illustration, not a model-specific cable photo.



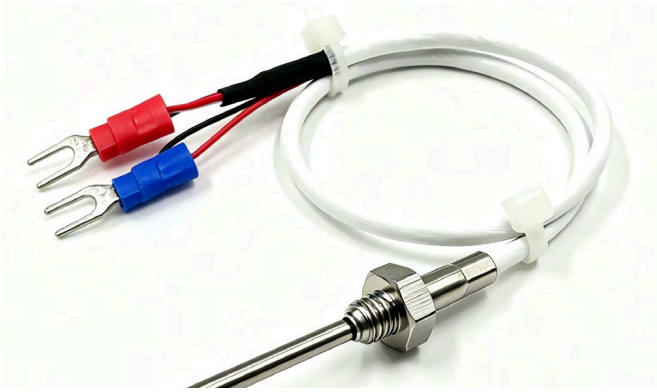
Model	Thermocouple	Positive / negative conductor
KX	K	Nickel-chromium / nickel-silicon
EX	E	Nickel-chromium / copper-nickel
JX	J	Iron / copper-nickel
TX	T	Copper / copper-nickel

Construction family	Published cable temperature
General type	-20°C to +100°C
FF-GS	-40°C to +250°C
HF4B-GS	-40°C to +380°C

Confirm grade, tolerance class, insulation, shielding and polarity colours against the required standard. Cable temperature ratings are distinct from thermocouple measurement ranges.

Model-coded cable assembly options.

Published cable constructions; photograph shows a temperature-sensor assembly illustration.



Published model	Configuration	Selection note
KX-HF4BP-GS	2 × 1.5 mm²	K-type; shielded example
EX-FF-GS	2 × 2.5 mm²	E-type extension example
KC-GV2P-GS	2 × 1.5 mm²	K-type compensation example
KX-HF4BP-GS	4 × 2 × 1.5 mm²	Four-pair K-type example
EX-FPF-GS	4 × 2 × 2.5 mm²	Four-pair E-type example
EX-GV2P-GS	4 × 2 × 1.5 mm²	Four-pair E-type example

ORDERING CHECKLIST

Thermocouple type • pair count • cross-section • insulation • shield • colour standard • tolerance grade • cut length • approval requirements

High-voltage connection cables

Cable constructions for on-board EV wiring and high-voltage interconnections in energy-storage equipment.



Representative family photograph; construction varies by selected model.

Construction family	Published selection range
Single-core, unshielded	1.5-70 mm²; AC 600 V / DC 900 V range shown in the source tables
Single-core, unshielded	10-120 mm²; AC 1000 V / DC 1500 V range shown in the source tables
Shielded constructions	Shielding construction table included in the source; exact model, cross-section and voltage require confirmation
EV / EVP	Retain source family codes; confirm code-to-construction mapping in the quotation

APPLICATION VALUE

Supports routing between compatible battery, drive, charging-interface and storage-system components. Match the cable to the electrical and installation design.

SPECIFY FOR QUOTATION

Rated AC/DC voltage, cross-section, shielding, insulation, temperature, bend radius, termination and applicable vehicle or battery-system requirements.

Catalogue references are selection guidance. Final construction, ratings and compliance documents are confirmed against the ordered model and approved data sheet.

Fluoropolymer wire range

Fine-gauge and heat-resistant insulation options for instrument and equipment wiring.

Source style	Published rating	Selection focus
10064	30 V / 105°C	Fine-gauge FEP wire; source range 40-16 AWG
1330	600 V / 200°C	FEP equipment and motor lead wire
1331	600 V / 150°C	FEP equipment lead wire
1332	300 V / 200°C	FEP wiring for elevated-temperature locations
1333	300 V / 150°C	FEP instrument and equipment wiring

APPLICATION VALUE

Choose insulation temperature and voltage to suit the lead location rather than specifying a single material across an entire assembly.

SPECIFY FOR QUOTATION

AWG, conductor plating and stranding, finished OD, colour, operating conditions and required approval documentation.

Catalogue references are selection guidance. Final construction, ratings and compliance documents are confirmed against the ordered model and approved data sheet.

PVC hook-up wires

Single-core electronic wires for internal equipment, instrument and appliance connections.



Representative family photograph; construction varies by selected model.

Source style	Published rating	Typical selection
1007	300 V / 80°C	General electronic equipment wiring
1571	30 V / 80°C	Low-voltage internal connections
1015	600 V / 105°C	General electronic and electrical equipment
1061	300 V / 80°C	SR-PVC; compact fixed wiring and IDC assemblies
10269	1000 V / -40 to +105°C	Equipment and appliance leads
11627	Rating to be confirmed	Source language versions differ; request model data sheet

SPECIFY FOR QUOTATION

Style, AWG, strand construction, insulation wall, OD, colour, cut length and approval requirements.

Catalogue references are selection guidance. Final construction, ratings and compliance documents are confirmed against the ordered model and approved data sheet.

Parallel & specialty wires

Flat linking wires and specialty insulation choices for equipment assemblies.

Source style	Source construction / rating	Application
4411	XLPE parallel; 300 V / 125°C	Internal equipment connections
4413	XLPE parallel; 300 V / 150°C	Higher-temperature connecting wires
2468	Parallel; 300 V / -20 to +80°C	Electronic and audio-visual links
3385	Low-smoke halogen-free; 300 V / 105°C	Internal equipment wiring
3132	300 V / 150°C	High-temperature control wiring

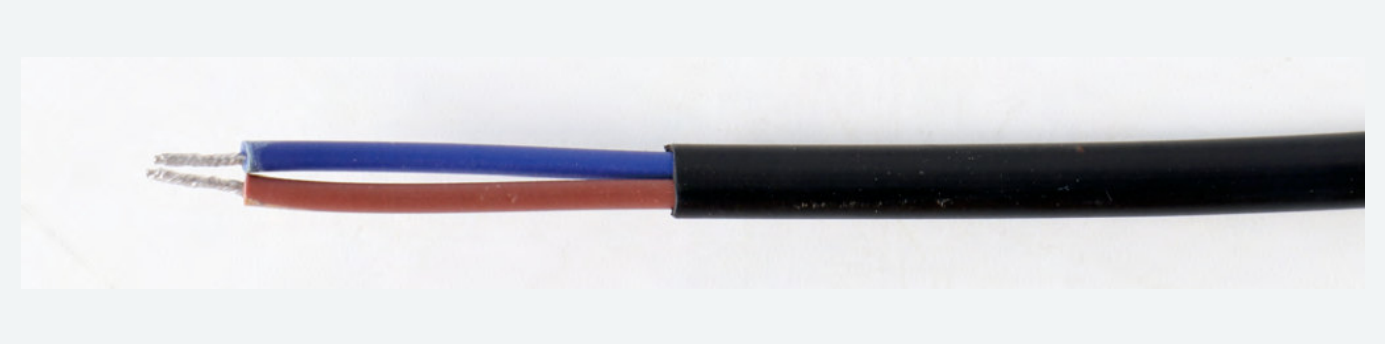
SPECIFY FOR QUOTATION

AWG, number of linked conductors, pitch, insulation, cut length, stripping and termination requirements.

Catalogue references are selection guidance. Final construction, ratings and compliance documents are confirmed against the ordered model and approved data sheet.

Shielded connection cables

Multicore constructions with foil or foil-and-braid shielding for equipment interconnections.



Representative family photograph; construction varies by selected model.

Source style	Published rating	Shield options
2464	300 V / 80°C	Aluminium foil; foil + braid
2517	105°C; confirm voltage	Related shielded family; verify full model rating
2725	30 V / 60-80°C	Aluminium foil; foil + braid

APPLICATION VALUE

Select the shield construction and grounding approach for the system EMC design. Shielding effectiveness must be evaluated for the actual cable assembly.

SPECIFY FOR QUOTATION

Core count, AWG, voltage, temperature grade, foil/braid construction, drain wire, overall diameter, flexibility and connector details.

Catalogue references are selection guidance. Final construction, ratings and compliance documents are confirmed against the ordered model and approved data sheet.

Data & audio wiring

Cable options for electronic signal links and audio-visual equipment connections.

Source style	Published rating	Configuration
20276	30 V / 80°C	Multicore and pair-count examples shown in source tables
2547	300 V / -20 to +80°C	Spiral-shielded wire; source range 30-20 AWG

APPLICATION VALUE

Match cable layout to the circuit and termination. Data rate, impedance and protocol performance require application-specific confirmation.

SPECIFY FOR QUOTATION

Circuit type, pair/core count, impedance if required, AWG, shield/drain, diameter, length and connectors.

Catalogue references are selection guidance. Final construction, ratings and compliance documents are confirmed against the ordered model and approved data sheet.

Single-core & twisted wires

Chinese-standard wiring families for equipment and installation requirements.

Family	Published voltage	Construction / use
BV	450/750 V	Single-core wiring family
BVR	450/750 V	Flexible copper conductor; confirm insulation material
RV	Confirm selected size	Flexible single-core equipment wire
RV-90	300/500 V	Elevated-temperature wiring family
RVS	300/300 V	Twisted flexible connecting cord
AVR / AVR-90	300/300 V	Small-section flexible installation wires
YG	300/500 V	Heat-resistant silicone-insulated wire

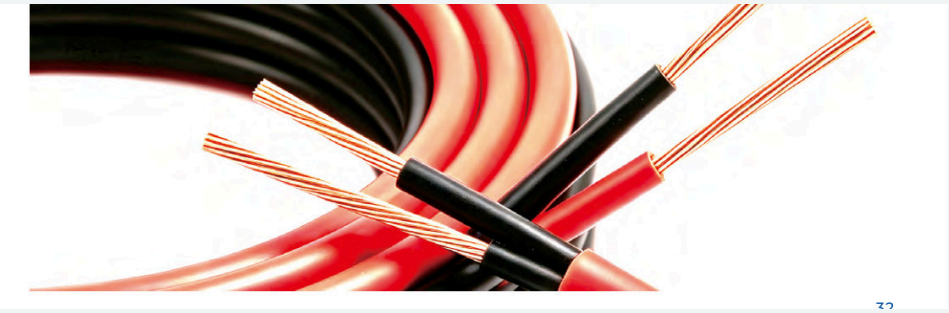
SPECIFY FOR QUOTATION

Conductor size, strand class, temperature, insulation, installation method and model-specific standards or certificates.

Catalogue references are selection guidance. Final construction, ratings and compliance documents are confirmed against the ordered model and approved data sheet.

Sheathed & screened cables

Flexible multicore and paired cable families for equipment and control connections.



Representative family photograph; construction varies by selected model.

Family	Published voltage	Configuration
RVV	300/300 V or 300/500 V	PVC-sheathed flexible cord; select construction
RVVP	300/300 V	PVC-insulated, PVC-sheathed screened multicore cable
RVVPS	300/300 V	Twisted-pair screened flexible cable
AVVR	300/300 V	Small-section multicore installation cable

APPLICATION VALUE

Choose a sheathed or screened construction to match routing, signal integrity and termination needs.

SPECIFY FOR QUOTATION

Core or pair count, conductor cross-section, shielding, overall diameter, voltage, flex requirement and destination-market requirements.

Catalogue references are selection guidance. Final construction, ratings and compliance documents are confirmed against the ordered model and approved data sheet.

Low-voltage automotive wires

Thin-wall wire families for vehicle wiring and harness processing.



Representative family photograph; construction varies by selected model.

Family	Published construction	Selection focus
FLRY-A	PVC / 105°C	Source table 0.22-2.50 mm²
FLRY-B	PVC / 105°C	Vehicle low-voltage harness wiring
FLR6Y-A	FEP / 200°C	Source range 0.13-6 mm²
AVS	Japanese-style thin-wall family	Source range 0.3-2 mm²; confirm insulation/rating

APPLICATION VALUE

Thin-wall constructions help fit vehicle routing spaces. Use the selected family data sheet to check thermal, electrical and mechanical suitability.

SPECIFY FOR QUOTATION

Vehicle-system voltage, conductor size, insulation, strand construction, colour, terminal compatibility and required automotive standard.

Catalogue references are selection guidance. Final construction, ratings and compliance documents are confirmed against the ordered model and approved data sheet.

From wire to assembly.

Terminal leads and wiring harnesses configured from the application drawing and bill of materials.



Images show manufacturing-catalogue assembly examples. Component sourcing, tooling, tests and acceptance criteria are confirmed for each project.

Useful for equipment builders seeking a defined connection assembly and consistent installation geometry.

ASSEMBLY OPTIONS

Cut-length leads, stripped and terminated wires, connector assemblies and branched harness configurations.

DRAWING-BASED QUOTATION

Provide connector and terminal part numbers, pin assignment, wire style, gauge, colours, branch lengths and protection requirements.

TECHNICAL SELECTION

Define the application. Then define the cable.

A complete requirement helps narrow the options and obtain a relevant quotation.

01 / OPERATING CONDITIONS

Temperature, continuous or intermittent duty, fluid exposure, immersion, installation space and movement.

02 / ELECTRICAL DESIGN

Rated voltage, current, signal type, core or pair count, shielding and grounding arrangement.

03 / CABLE CONSTRUCTION

AWG or mm^2, conductor plating, stranding, insulation, jacket, maximum diameter and colours.

04 / ASSEMBLY & DELIVERY

Cut length, stripping, connectors, terminals, pinout, drawing revision, trial quantity and delivery destination.

05 / COMPLIANCE & ACCEPTANCE

Specify the required standard, test evidence and model-specific certificates. A catalogue style designation alone is not proof of certification.

Reference basis: manufacturing product-selection literature supplied for this catalogue. Published model codes are retained for traceability. Some source values or translations differ; the approved product data sheet governs the order.

COMPANY & ENQUIRIES

Your Cable.
Engineered for Your Application.

Sparta Charger supplies industrial sensor cables, high-temperature lead wires, electronic wires, automotive wires, high-voltage connection cables and wiring harness solutions.

FOR OEMS & EQUIPMENT BUILDERS

Share a model, drawing or sample requirement. We help define the cable construction, confirm specification details and prepare a quotation for your application.

REQUEST A QUOTATION

Include the model or style, conductor size, core count, insulation or jacket, operating conditions, quantity, required documentation and destination.

www.spartacharger.com

WhatsApp +852 5297 1750

MODEL / DRAWING / APPLICATION / QUANTITY

MOQ, sample availability, production lead time and compliance documents are confirmed by specification and order quantity.