



M12 Y-coded 8-pin hybrid Ethernet + power

M12 Y-coded

Hybrid Power and Industrial Ethernet Cordset Assembly

IEC 61076-2-113 8-pin M12 Y-coded hybrid 100 Mbps Cat5e Ethernet + 2 × 6 A power cordset



IEC 61076-2-113

100 Mbps + 2×6 A Power

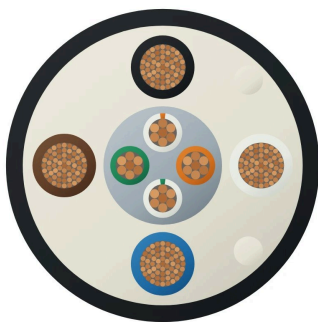
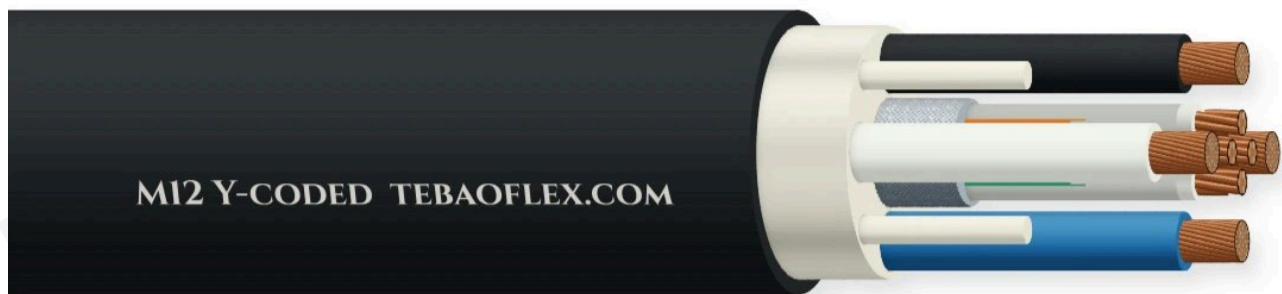
Y-Shield Divider

Application

Single-cable M12 Y-coded hybrid cordset to IEC 61076-2-113 with a Y-shaped metal shield separating 4 × 26 AWG Cat5e 100 Mbps Ethernet pins (1–4) from 4 × 0.75/1.0 mm² DC power pins (5–8, 50 V / 6 A) in drag-chain PUR.

Typical uses: Machine Vision Cameras & 3D Laser Profilers, EtherCAT P / Hybrid I/O Box Trunk Lines, Automated Guided Vehicles (AGV / AMR), Smart Servo Actuators & Valve Islands, Compact Packaging & Pick-and-Place Robotics

Construction



Cross-section, not to scale

- 1 Data star-quad & Class 6 power conductors
- 2 Foam-skin PE data & PP power insulation
- 3 Dedicated inner data-quad SF/UTP shield
- 4 Overall 85 % tinned copper EMC braid
- 5 Drag-chain PUR outer jacket

Technical data

Typical values

Data transmission (Pins 1–4)	100Base-TX Cat5e up to 100 MHz (100 ± 15 Ω)	Data contact rating (Pins 1–4)	50 V AC/DC · 0.5 A max per pin
Power contact rating (Pins 5–8)	50 V AC/DC · 6.0 A max per pin at 40 °C	Rated impulse voltage	0.8 kV (data pins 1–4) · 1.5 kV (power pins 5–8)
Data-to-power isolation	≥ 70 dB coupling attenuation via Y-shield	Operating temperature (fixed)	–40 °C to +85 °C
Operating temperature (drag chain)	–25 °C to +80 °C	Hybrid core configuration	(1×4×AWG26/19 C) + 4×0.75 mm² or 4×1.0 mm² C
Min. bend radius (fixed / chain)	5 × OD fixed · 10 × OD drag chain	Drag-chain endurance	≥ 5,000,000 cycles at 3 m/s
Mating durability	≥ 100 mating cycles (IEC 61076-2-113)	Ingress protection	IP65 / IP67 (mated at 0.6 Nm)
Oil & coolant resistance	EN 60811-404 / UL Oil Res I	Flame & halogen	UL VW-1 / IEC 60332-1-2 · Halogen-free IEC 60754-1
Standards	IEC 61076-2-113 (M12 Y-coded 8-pin)	Standard packing	Individually bagged with Fluke Cat5e pass certificate

Sizes

12 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Data + Power Conductors	Connector Ends	Power Rating V / A	Data Mbps	Cable OD mm	Cable Wt kg/km	Chain R mm
4×AWG26 Cat5e + 4×0.75 mm² (18 AWG) Power — Compact 7.8 mm OD Hybrid 6 sizes							
☐ M12Y-8P-075-MSMS-PUR	4×AWG26 + 4×0.75 mm²	Y-Male Str ↔ Y-Male Str	50V / 6A	100M	7.8	94	78
☐ M12Y-8P-075-MSFS-PUR	4×AWG26 + 4×0.75 mm²	Y-Male Str ↔ Y-Female Str	50V / 6A	100M	7.8	94	78
☐ M12Y-8P-075-MS-OPEN	4×AWG26 + 4×0.75 mm²	Y-Male Str → Open End	50V / 6A	100M	7.8	94	78
☐ M12Y-8P-075-FS-OPEN	4×AWG26 + 4×0.75 mm²	Y-Female Str → Open End	50V / 6A	100M	7.8	94	78
☐ M12Y-8P-075-MAFS-PUR	4×AWG26 + 4×0.75 mm²	Y-Male 90° ↔ Y-Female Str	50V / 6A	100M	7.8	94	78
☐ M12Y-8P-075-FA-OPEN	4×AWG26 + 4×0.75 mm²	Y-Female 90° → Open End	50V / 6A	100M	7.8	94	78
4×AWG26 Cat5e + 4×1.0 mm² (17 AWG) Power & Cabinet Breakout Adapters 6 sizes							
☐ M12Y-8P-100-MSMS-PUR	4×AWG26 + 4×1.0 mm²	Y-Male Str ↔ Y-Male Str	50V / 6A	100M	8.4	112	84
☐ M12Y-8P-100-MSFS-PUR	4×AWG26 + 4×1.0 mm²	Y-Male Str ↔ Y-Female Str	50V / 6A	100M	8.4	112	84
☐ M12Y-8P-100-FS-OPEN	4×AWG26 + 4×1.0 mm²	Y-Female Str → Open End	50V / 6A	100M	8.4	112	84
☐ M12Y-8P-100-MS-OPEN	4×AWG26 + 4×1.0 mm²	Y-Male Str → Open End	50V / 6A	100M	8.4	112	84
☐ M12Y-BRK-RJ45-M12A	Y-Splitter Breakout	Y-Female → RJ45 + M12-A 4P	50V / 4A	100M	7.8	94	78
☐ M12Y-BRK-M12D-M12A	Y-Splitter Breakout	Y-Female → M12-D + M12-A 4P	50V / 4A	100M	7.8	94	78

– Y-splitter breakout adapters split the single M12 Y-coded trunk at the control cabinet into a standard Cat5e RJ45 (or M12 D-coded) data plug plus a 4-pin M12 A-coded power plug.

Standards and approvals

- ✓ IEC 61076-2-113 M12 Y-Coded Hybrid Compliant
- ✓ ISO/IEC 11801 Class D Cat5e & cULus UL 2238

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/m12-y-coded-hybrid-power-and-industrial-ethernet-cordset-assembly



Typical values for this cable type, based on IEC 61076-2-113 / ISO/IEC 11801 Cat5e / UL 2238. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.