

## 49Y7890-C

IBM® 49Y7890 Compatible TAA Compliant 40GBase-CU QSFP+ Direct Attach Cable (Passive Twinax, 1m)

### Features:

- Full duplex 4 channel parallel passive optical cable
- Transmission data rate up to 10.3Gbps per channel
- SFF-8436 QSFP+ compliant
- Hot pluggable electrical interface
- Low power consumption
- Housing isolated from connector ground
- Operating Temperature: 0 to 70 Celsius
- 3.3V power supply voltage
- RoHS Compliant and Lead-Free



### Applications:

- Serial Data Transmission

### Product Description

This is a IBM® 49Y7890 Compatible 40GBase-CU QSFP+ to QSFP+ direct attach cable that operates over passive copper with a maximum reach of 1m. It has been programmed, uniquely serialized, and data-traffic and application tested to ensure it is 100% compliant and functional. We stand behind the quality of our products and proudly offer a limited lifetime warranty. This cable is TAA (Trade Agreements Act) compliant and is built to comply with MSA (Multi-Source Agreement) standards.

ProLabs' transceivers are RoHS compliant and lead-free.

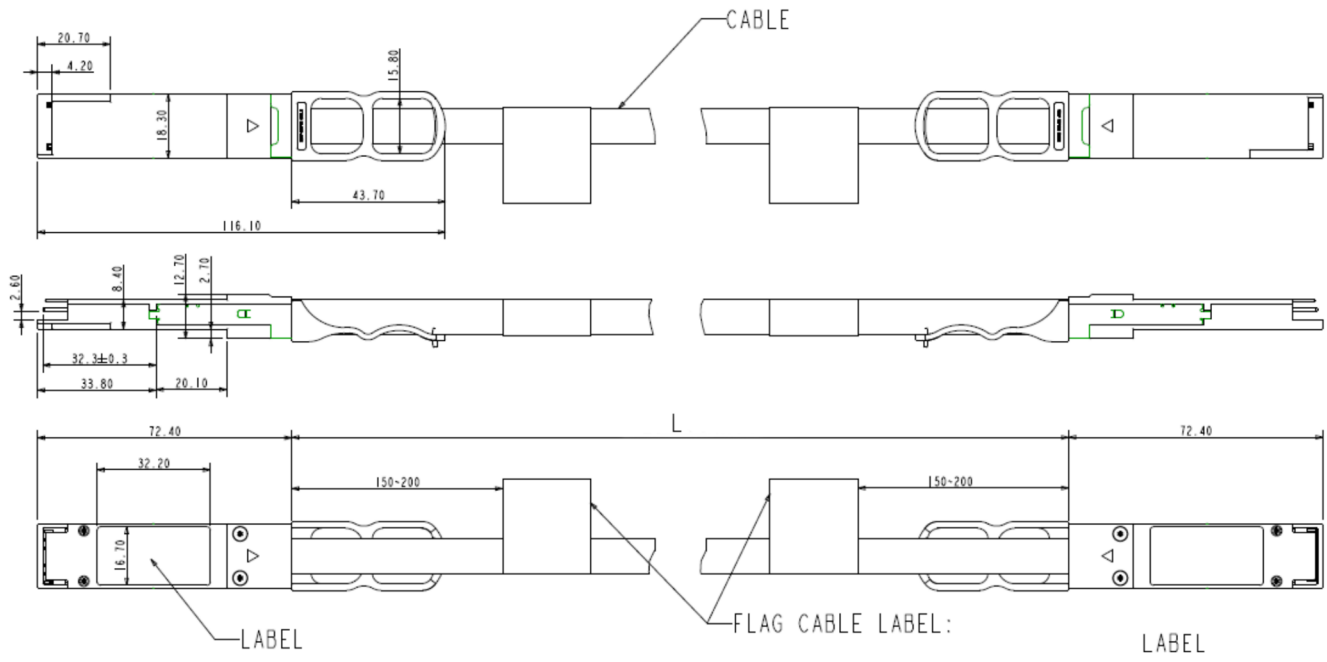
TAA refers to the Trade Agreements Act (19 U.S.C. & 2501-2581), which is intended to foster fair and open international trade. TAA requires that the U.S. Government may acquire only "U.S. – made or designated country end products."



## Specifications

| Parameter  | Specifications                 | Unit   |
|--|--------------------------------|--------|
| Minimum Dielectric Withstand Voltage                   | 300                            | VDC    |
| Insulation Resistance                                  | 1000                           | MΩ     |
| Current Rating   | 0.5 Amp Minimum/Signal Contact |        |
| Operating Temperature                                  | 0 to 70                        | °C     |
| Flammability Rating (Plastics)                         | UL 94                          |        |
| Shield   | Braid/Foil                     |        |
| Connector  |                                |        |
| Back Shell Material                                    | Nickel-Plated Zinc Diecast     |        |
| Contact Material                                       | PCB with Gold-Plated Pads      |        |
| Maximum Insertion Force                                | 40                             | N      |
| Maximum Withdrawal Force                               | 30                             | N      |
| Durability   | 250                            | Cycles |
| Tightest Recommended Vertical Spacing (Belly-to-Belly) | 11.80                          | mm     |
| Tightest Recommended Vertical Spacing (Stacked)        | 17.50                          | mm     |
| Cable  |                                |        |
| Conductor  | Solid                          |        |
| Wire Gauge   | 28                             | AWG    |
| Impedance  | 100±5                          | Ω      |
| Construction   | Twinaxial                      |        |
| Jacket Type  | PVC                            |        |

Mechanical Specifications



## About ProLabs

Our experience comes as standard; for over 15 years ProLabs has delivered optical connectivity solutions that give our customers freedom and choice through our ability to provide seamless interoperability. At the heart of our company is the ability to provide state-of-the-art optical transport and connectivity solutions that are compatible with over 90 optical switching and transport platforms.

## Complete Portfolio of Network Solutions

ProLabs is focused on innovations in optical transport and connectivity. The combination of our knowledge of optics and networking equipment enables ProLabs to be your single source for optical transport and connectivity solutions from 100Mb to 400G while providing innovative solutions that increase network efficiency. We provide the optical connectivity expertise that is compatible with and enhances your switching and transport equipment.

## Trusted Partner

Customer service is our number one value. ProLabs has invested in people, labs and manufacturing capacity to ensure that you get immediate answers to your questions and compatible product when needed. With Engineering and Manufacturing offices in the U.K. and U.S. augmented by field offices throughout the U.S., U.K. and Asia, ProLabs is able to be our customers best advocate 24 hours a day.



## Contact Information

ProLabs US

Email: [sales@prolabs.com](mailto:sales@prolabs.com)

Telephone: 952-852-0252

ProLabs UK

Email: [salesupport@prolabs.com](mailto:salesupport@prolabs.com)

Telephone: +44 1285 719 600