

tyco

Electronics



Raychem Integrated Harness Assembly

DESCRIPTION

- Tyco Electronics offers Raychem Integrated Harness Assembly (RIHA) products that integrate Raychem and other Tyco Electronics products into a fully assembled harness
- Harness Design Service – Design harnesses from electrical listing and routing information
- Prototype Build – Small to Medium Volume Builds
- Production Build – Medium to Larger Volume Builds
- Reverse Engineering – Designing and documenting harness assemblies from existing hardware
- Testing manufactured harnesses to customer requirements
- HarnWare Harness Design Program – PC based in-house developed software for designing harnesses

Raychem Integrated Harness Assembly

Tyco Electronics offers high quality ready-to-install harness assemblies for applications that require high performance in a tough environment. These harness assemblies utilize proven Raychem products such as wire and cable, heat-shrinkable tubing, molded parts, identification products, Tinel-Lock adapters, adhesives, and many more. Combined with our high performance Raychem products are other harness components, for example, ARINC connectors, D-sub-miniature connectors, terminals, etc. Tyco Electronics works with some of the largest mil-standard connector assembly value-add distributors to offer the integrated harness assemblies. These combinations offer a great benefit for our integrated harness assembly customers.

Tyco Electronics offers services to design harnesses from customer furnished system information such as from-to wire list, HarnWare program output, or other similar system descriptions. These designs are used to build fit-check mock-ups, one-off first article, prototypes, and production quantity harnesses. In addition, we offer services to test harnesses we produce to a pre-arranged performance specification utilizing our in-house test facilities at our contracted test sites. In some older platforms for repairs or upgrades, a lack of available documentation necessitates a creation of drawings from existing harnesses. Based on a sample and upgrade requirements, a

reverse engineering may be done for you to generate drawings and/or produce hardware from them. For our design work, we use in-house developed HarnWare harness design software. The HarnWare program is a pc-based harness design program. HarnWare software program has been in use and is proven for over a decade by over a thousand customers around the world. This software is for sale to our harness designing customers. Please visit our website: www.tycoelectronics.com or www.harnware.com for more details.

Raychem Integrated Harnessing systems have been developed for a wide range of defense, aerospace, and industrial applications. The concept of the system makes selecting compatible components for a certain environmental, mechanical, or application conditions simpler. Raychem Integrated Harness Assemblies use these design principles to produce harnesses that will perform in their intended applications and environments. The systems are summarized on the reverse side.

For all your high performance electrical harness needs, small or large, simple or complex, one or many, tough or otherwise, simply contact your local Tyco Electronics sales representative or Raychem product field application engineer to discuss your opportunities.

FACILITIES

Tyco Electronics produces a variety of cable and harness assemblies ranging from commercial and industrial applications to high-performance military and aerospace harnesses at locations throughout the world. These facilities are located in the United States, Mexico, China, Korea, India, New Zealand, United Kingdom, European countries, and others.

Primary factory locations for Raychem Integrated Harness Assemblies are located in Menlo Park, California and Tijuana, Mexico.



Tijuana, Mexico



Menlo Park, California

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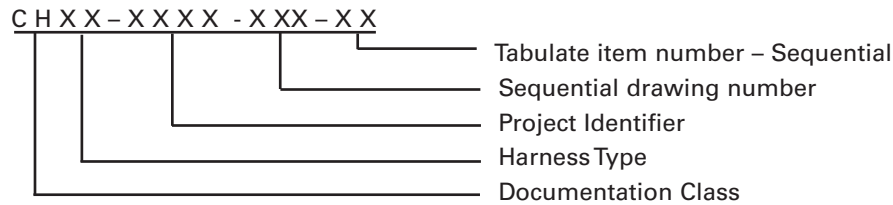
INTEGRATED HARNESS SYSTEMS

System	Physical Characteristics	Operating Temperature	Fluid Resistance	Flammability	Typical Applications
10	+ Environmentally sealed + Lightweight + Small diameter + Flexible	-20°C to 60°C	+ Resists common industrial and military cleaning solvents and degreasers	+ Flame-resistant + Self extinguishing	+ Used in high performance industrial applications, and in military communication and test equipment
20	+ Environmentally sealed + Tough + Flexible + Low profile	-55°C to 121°C	+ Resists common military fuels, oils, and grease	+ Flame-retarded + Self-extinguishing	+ Specially suited to military vehicles and engine compartments, low profile shapes save space and weight
25	+ Environmentally sealed + Rugged + Abrasion-resistant	-75°C to 150°C	+ Resists most common military fuels, oils, and greases up to 70°C	+ Flame-resistant + Self-extinguishing	+ Specially suited to military and vehicles, aerospace, marine, communication, and test equipment applications
30	+ Environmentally sealed	-55°C to 150°C	+ Resists common	+ Flame-retarded	+ Specially suited to military
100	+ Environmentally sealed + Flexible	-30°C to 105°C	+ Resistant to a range of military fuels, oils, and greases + Low smoke emission (as defined by NES-711) + Low corrosive gas evolution	+ Low toxicity index (as defined by NES-13)	+ Specially suitable for confined habitat areas in military and civil applications
200	+ Environmentally sealed + Very flexible	-55°C to 200°C	+ Resists long-term immersion in military fuels, oils, and greases at elevated temperatures	+ Highly flame-resistant	+ Used where there is prolonged exposure to high temperatures + Used where a harness may be permanently immersed in difficult fuels, such as in fuel tanks
300	+ Environmentally sealed + Highly abrasion resistant + Low profile	-65°C to 200°C	+ Performs in aggressive fluids at extremely high temperatures + Low fluid uptake	+ Highly flame-resistant	+ Permanent immersion in aggressive fluids
770	+ Environmentally sealed + NBCCS compatible + Flexible	-55°C to 125°C	+ Resistant to NBC chemical agent uptake and decontamination + Resists most commonly used military fuels, oils, and greases	+ Flame-retarded + Self extinguishing	+ Base-line system for applications requiring NBCCS compliance
780	+ Environmentally sealed + NBCCS compatible + Most flexible NBCCS material system	-55°C to 175°C	+Resistant to NBC chemical agent uptake and decontamination + Resists most commonly used military fuels, oils, and greases	+ Flame-retarded + Self extinguishing	+ NBCCS applications requiring higher temperature performance
790	+ Environmentally sealed + NBCCS compatible + Semi-Flexible	-65°C to 200°C	+Resistant to NBC chemical agent uptake and decontamination + Resists most commonly used military fuels, oils, and greases	+ Flame-retarded + Self extinguishing	+ NBCCS applications requiring extreme high temperature performance

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PART NUMBERING*

Part Numbering*



ORDERING INFORMATION

Submit wiring data and harness dimensional requirements to a Tyco Electronics representative in your area or send a quotation request to raychem.harness.assembly@tycoelectronics.com

FOR MORE INFORMATION

Technical Support
Internet: www.tycoelectronics.com
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USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-792-0425

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Japan: 81-44-900-5102
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