EDITION 7
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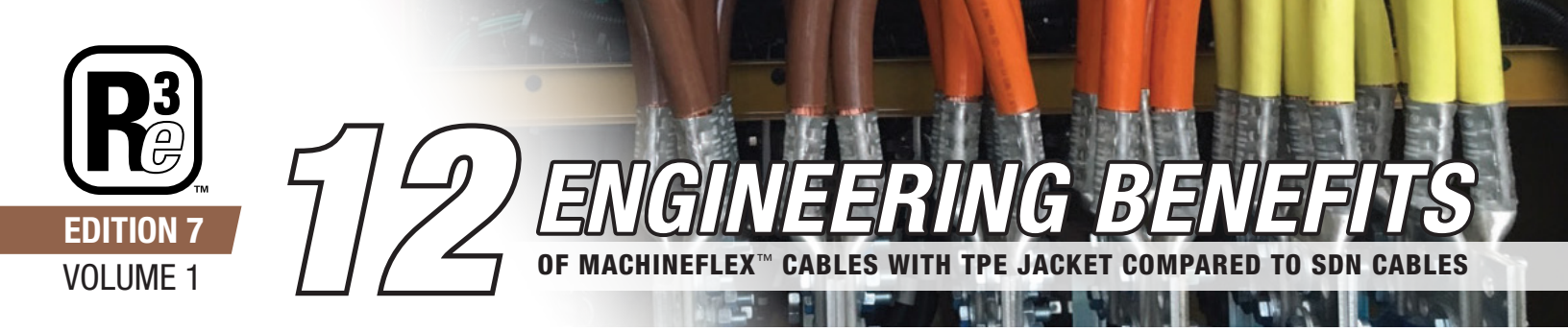

12 ENGINEERING BENEFITS

OF MACHINEFLEX™ CABLES WITH TPE JACKET COMPARED TO SDN CABLES

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HISTORICAL IMPROVEMENTS

Neoprene used in Type SDN cable is an older general-purpose rubber developed in the 1930s. TPE with an advanced formulation was launched 40 years after Neoprene.

PHYSICAL BENEFITS

A lower specific gravity for TPE compared to Neoprene contributes to lighter weight and easier processing.

SYNERGETIC PROPERTIES

TPE combines a thermoplastic-based polymer and a thermosetting rubber in one single formulation and creates synergetic properties mimicking vulcanized rubbers.

DIMENSIONAL COMPACTNESS

Reduction of the overall size enables the cables to be installed in the most confined or congested space.

QUALIFIED PERFORMANCE

Many industrial projects specify MachineFlex™ cable as an alternative to SDN. MachineFlex™ cable has been qualified for more markings including Sun Res, Oil Res I&II, Dir Bur, FT-4, and CE.

SUPPLY CONTINUITY

Sustainable and quality supply from various TPE vendors minimizes supply chain interruptions and prevents potential quality issues.

THERMAL RESISTANCE

TPE features an enhanced temperature stability upon repeated thermal cycling resistance compared to Neoprene.

CHEMICAL STABILITY

TPE delivers better long-term performances without the need for crosslinking to achieve Neoprene properties.

ELECTRICAL ADVANTAGE

MachineFlex™ cable is rated up to 1kV (when used as WTTC or AWM) compared to SDN which is limited to 600V (Type TC). A higher voltage rating extends the life without early replacement due to system upgrades.

OPERATIONAL EFFICIENCY

Reduction in the total weight of the cable allows for longer pulls or multiple pulls of larger cables with the lowest weight per length.

INDUSTRIAL APPLICATIONS

MachineFlex™ cable has gained popularity in applications including heavy duty machineries such as lifts, cranes, pulleys, and hoists.

ENVIROMENTAL MERITS

MachineFlex™ cable made with a thermoplastic TPE yields a reduced carbon footprint and can be recycled.

Southwire®

For more information, please contact cabletechsupport@southwire.com or visit **southwire.com**.