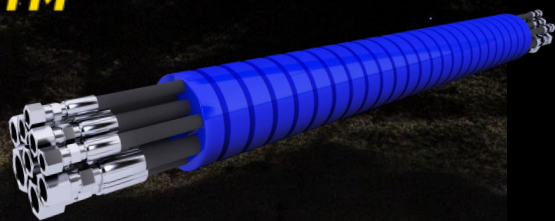


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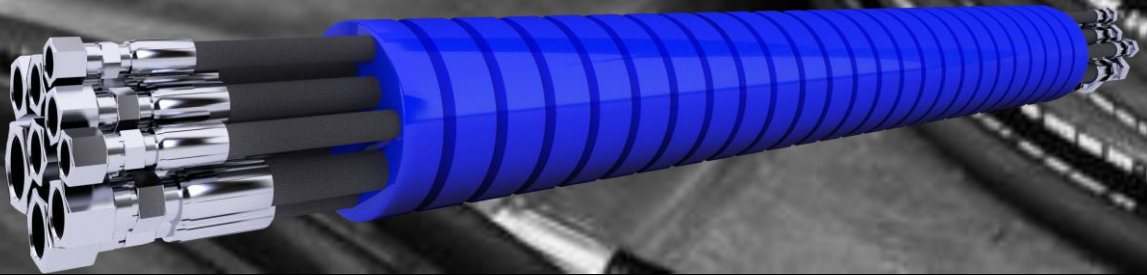
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Engineered Hose & Coupling System



Mining applications where hose and fittings are used on surface and underground plant equipment are subjected to tremendous hydraulic system pressures and pressure spikes. It is not as simple as attaching a hose coupling to a hose but is a far more complex engineering solution in choosing the correct product for the application ensuring the product is fit for purpose. Industry international standards specify tolerances for material and dimensions when manufacturing hose couplings and hose.

While these standards are followed by manufacturers, it must be noted that tolerances within the manufacturing standards may differ from each manufacturer, which could lead to premature failures to hose and fitting tolerance differences. [MTC Contractors](#) manufacturing facilities set their own tolerance limits which are tested to the relevant international standards and are published to the global market as an engineered hose and coupling system

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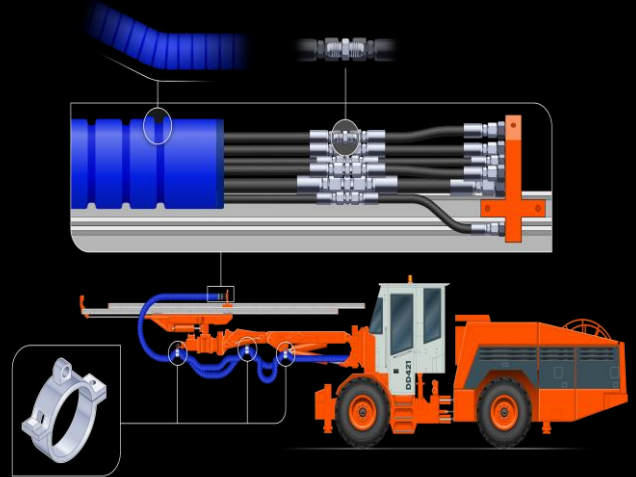
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PRODUCT IDENTIFICATION

MTC CONTRACTORS engineered match system is per MDG 41 requirements (MDG 41 clause 3.8.5 & clause 3.8.6), MTC Contractors fluid connectors are accurately marked and identified as per the MDG 41 requirement. It is important that hose and fitting components are identified by part number and other appropriate symbols relating to the manufacturer so assemblers and end-users can verify that the assembly is a matched engineered system and meets the MDG 41 requirement.

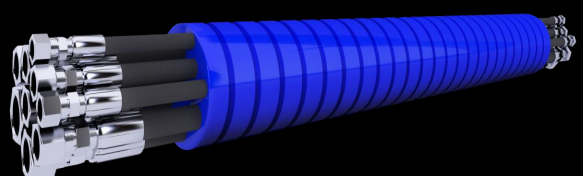
MTC Contractors Part Numbers and branding symbols are provided on all hose and fittings components to ensure that the correct series of hose and coupling types are used to create a matched system. Manufacturing Batch codes are provided all hose products and couplings for material traceability. Batch codes assist with full traceability of the product back to the date of manufacture and origin. MTC Contractors supplied products are branded with unique Part Numbers and branding symbols thereby providing complete identification and traceability.



- **ACCREDITATION**
- **MTC Contractors** manufacturing facilities and partners are committed to safety and manufacturing excellence ensuring **QUALITY**. As a supplier with manufacturing partners MTC Contractors ensures that our products are accredited by independent third-party organizations:

- **SAE**
- **MSHA**
- **ABS**
- **DNV**
- **AS**

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MATCHED SYSTEM MDG 41 - CLAUSE 1.5.14 MATCHED SYSTEM A matched hose assembly is where the hose and fittings (insert/ferrule) are designed, manufactured and routinely tested to match up to a manufacturer's hose type. In this case both (hose and fitting) are assembled and crimped using the methods as specified by the designer

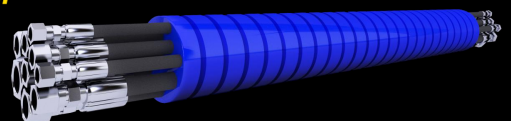
HOSE ENDS MDG 41 - CLAUSE 3.8.6 Hose ends should not be interchanged and should be properly matched to the hose based on proven type test result. Only select hose ends compatible with the hose for the application. The fitting and hose manufacturer's recommendations should be strictly followed.

MTC Contractors constant pressure range of hoses and coupling systems provide effective additional operational safety when using the **MTC Contractors** engineered matched hose and coupling system.

The hose tolerance/manufacturing capabilities ensure internal hose diameter, hose reinforcement, textile/wire braid/steel wire dimensions, hose cover thicknesses of **MTC Contractors** hydraulic hose types ensure premium performance when compared to specified **ISO**, **EN/DIN** and **SAE** standards.

MTC Contractors hose types and couplings are designed, engineered, and matched through rigorous impulse and cycle testing to exceed relevant industry standards. **MTC Contractors** matched systems deliver a high-performance consistent product when assembled, equaling life cycle performance and safety to the customer

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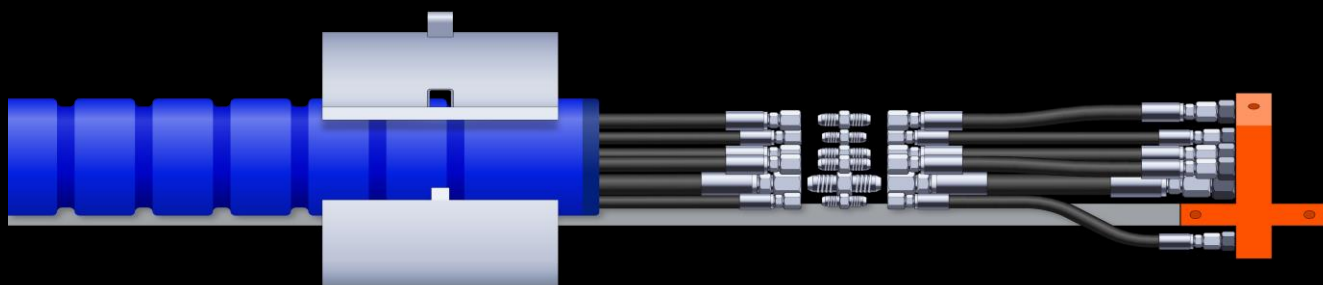


Full Length Crimp offers maximum coupling retention for a safe and longer lasting assembly.

Our Bite-to-Wire fittings penetrate the cover with a powerful bite into the wire reinforcement, resulting in even hose compression and maximum integrity.



- Engineered B2 Hose Coupling System
- B2 Coupling – Validated on 1SN, 2SN, 2SC, Hydraulic hose types.
- Suits all Braided Hydraulic Hose Types
- Engineered Hose & Coupling System
- Industry standard Part Number identification
- Product Part Numbers relate back to MTC Contractors Catalogue
- Engineered SG Hose Coupling System
- SG Coupling – Validated on 1SN, 2SN, 2SC, 4000PSI, 5000PSI, 6,000PSI Hydraulic hose types.
- Reduction inventory holding. One Coupling that does all hose types



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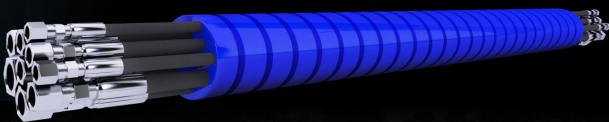


ULTRA-TUFF CONSTANT PRESSURE EXTENDED LIFE HOSE Ultra-Tuff Pressure Range meets the Flame Resistance and Electrical Resistance (Anti-Static) - **FRAS** - requirements of AS 2660 when tested in accordance with test methods AS 1180.10B & AS 1180.13A. Constant Pressure Extended Life exceeds Mine Safety and Health Administration (MSHA). Ultra-Tuff Pressure Range is the engineered solution for mining solution applications specifically designed to provide optimum life cycle of the hose and reduce maintenance and break downs.

Meeting and exceeding **FRAS** and **MSHA** requirements, **MTC Contractors** Constant pressure extended life has been designed with a robust tuff cover which provides excellent Flame Resistant and Anti-Static properties along with the extended abrasion resistance cover to survive arduous mining conditions. Ultra-Tuff Pressure Range is your ideal partner for high pressure applications where the hose cover is subjected to harsh abrasion that may cause premature failure of general hydraulic hose types. Ultra-Tuff Pressure Range: Stay Tough In The Most Extreme Mining Conditions.

ABRASION RESISTANT Hose Assemblies and associated hydraulic connections used in all mining applications must be durable and tough enough to meet the demanding operational and environmental conditions of mining and associated industries.

MTC Contractors Constant Pressure Ultra-Tuff Hydraulic Hose - complies with ISO 6945 method of test for abrasion resistance being less than 15% of the maximum weight loss allowed by EN 853, EN 856 and EN 857. **MDG 41 CLAUSE - 3.8.2.6** states "All hoses should meet the abrasion resistance requirements of ISO 6805 as a minimum." **The MTC Contractors** constant pressure extended life range exceeds this requirement by 15 times



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