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Suitability of PMA Products for use in Desert Applications

Dear Ladies and Gentleman

PMA AG cable protection systems manufactured from high grade, specially modified polyamide materials have been evaluated for their suitability for use in desert applications. In the desert during the day dry, hot conditions can be expected with high UV exposure. At night the temperatures can sink quite low. Black, PA12 material is recommended for its high resistance to UV.

It can be clearly stated that Polyamide materials are not affected chemically by either sand or salt.

Furthermore PMA has conducted a series of tests to investigate the resistance of their polyamide conduits and fittings to a sand storm. The tests involved the use of a quartz sand blasting machine to simulate an extreme sand storm. Conduits and fittings were subjected for 60 seconds to a jet of sand from such a machine at distances of 10cm and 20cm and at pressures of 4 bar and 6 bar. Please find some pictures of the conduits after exposure on the second page.

We believe these tests represent a far higher level of exposure than could ever be seen in the desert. The naturally occurring wind speeds and number of impacting grains of sand will be many factors lower in a real sand storm than is simulated in this test. Since a real sand storm in the desert does not produce such intense local exposure at a single point and the grains of sand are likely to be much finer than the quartz sand used for the experiment we do not expect a sand storm to cause any deterioration to PMA polyamide cable protection parts.

PMA PCS PA12 material has excellent abrasion and UV resistance characteristics. This conduit type is extremely tough and its material possesses very good damping characteristics. PCS will also resist well to the low humidity, which could cause some materials to become brittle. Combined with a high wall thickness, PCS is an ideal choice for applications in the desert.

With compliments

PMA AG

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