

More Efficient Circular Connector:  
Radically Simplified Mounting and Drastically Reduced Mounting Time



Photo: LUMBERG Circular Connector Series WG03, Article-No. 033200

The radically simplified mounting of our new 360° shielded screw-type circular connector is our response to assembly requirements in the field as well as of manufacturers targeting high volumes for pre-assembly. A highly innovative shielding mechanism on the inside of the casing which already received patent approval, makes it possible to compose the entire connector from a much smaller number of individual parts, which in return facilitates a much faster assembly process including soldering or when crimping the cable to the connector's components. The highly time-intensive and elaborate process steps of stripping, expanding, shortening and applying a shielding braid known for comparable connectors becomes completely redundant here. In addition, the quality of the assembly is raised by eliminating frequent assembly errors which impact the leak tightness immensely. For example, manufacturing, compared to conventional circular connectors, can be completed in 50% of the time currently needed. In addition to resistance to salt, dust and UV rays a special vibration protector fitted into the metal casing - also under patent approval - acts as an added security feature by preventing a loosening of the screwed connection.

For the imminent publication of the latest requirements under the AISG specification, the initial 05-1 and 08-1 pin configuration of the connector designed with an IP68 protection category and according to IEC 61076-2-106 is perfectly primed. The new circular connector

even caters to the more stringent requirements for larger cable diameters by holding cables of up to 10 mm. Designed for signal currents and load currents of up to 5 A and a rated voltage of 100 V AC with VG 1, the connector is ideal for use in 4G antenna control and guarantees, for example a smooth electrical connection between base stations on both ends of RET cables (remote electric tilt antenna) and associated devices such as bias tees, TMAs (tower mounted amplifiers) or surge protection as typical fields of application for which our circular connectors boast a proven track record in mobile network infrastructures as well as many other industries. The new connector clearly also simplifies mounting for all industrial applications which require the use of shielded cables. Customary pin numbers will become gradually available in the future.