

CMS/LiYCM11YÖ 6 x 0,14 mm²

EMC signal cable with attenuation of sheath currents

EMC signal line with attenuation

- Ferrite coating: EMC / COM
- Shielding via tinned annealed copper
- Conductor resistance (DC): max. 160 Ω/km at 20 °C

Customer Opinion: "Problem-solving cable" for EMC-related signal problems.



Example of a ground connection with the EMC cable clamp ERSC-3 M4

Overview

When a cable is subject to electromagnetic interference radiation, the electric field component is mainly reflected, while the magnetic field component is partially attenuated by creating eddy currents on the surface of the shielding. The ferrite-filled material (EMC/COM) on the shielding braid of a shielded cable causes considerable attenuation of the sheath currents on the braid. The effect is comparable to placing ferrite rings around the cable. However, the homogeneous ferrite layer does not cause sudden changes in impedance, thus avoiding reflections. These CMS cables are used in all cases where asymmetric interference (common mode) or surface currents cause problems.

Polyurethane compound

Key facts

- Particularly good shielding against electromagnetic radiation
- For asymmetrical flows and surface currents
- Extreme mechanical resistance (abrasion-, tearing-, notch-, pressure and wear resistant)
- Good chemical resistance (gasoline, oil, grease) and environmental influences (ozone, UV, water...)



TMPU

1/2



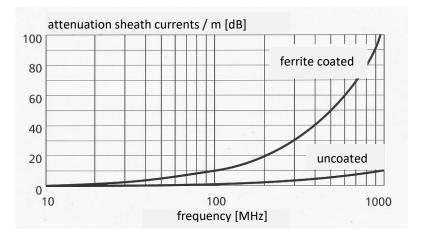
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Technical data

CMS/LiYCM11YÖ 6 x 0,14			
Conductor	tinned annealed copper, grade 5	Assembly	cores are laid-up concentrically
	\varnothing ~ 0,5 mm; cable section: 6x 0.14 mm ² conductor shape: 12x0.12 mm	Shielding	tinned copper wire braid; wire nom. Ø: max. 0.15 mm coverage > 75%
Conductor resistance (DC)	max. 160 Ω/km at 20 °C		(indicative value)
Insulation	PVC	Diameter over screen	3,6 <u>+</u> 0,2 mm
	(thickness: nominal 0.25 mm /	Ferrite coating	extruded EMC ferrite layer
	minimum 0.20 mm) Ø over isolation: 1,0 mm (- 0,05/+ 0,2)	Outer sheath	polyurethane mixture TMPU according to EN 50525-21
Insulation resistance at 20°C	$\geq 100 \text{ M}\Omega^*\text{km}$ (core/screen)		color: orange; matte Ø 6.5 mm (+ 0.4 / - 0.3)
Core colors	according to DIN 47100: white, brown, green, yellow, gray, pink		bending radius: minimum 8x outer diameter
	/	Operating temperature during laying / handling	-30 °C to 70 °C -30 °C to 50 °C
		Weight net	~ 75 kg/km
		Operating voltage	max. 300 V AC
		Service voltage	1,5 kV AC / 5'

Technical data II



All information regarding appearance and technical data correspond to the current state of development at the time of release of this data sheet. We reserve the right to make technical changes. *TF 16352_REV1x_252201* 162302