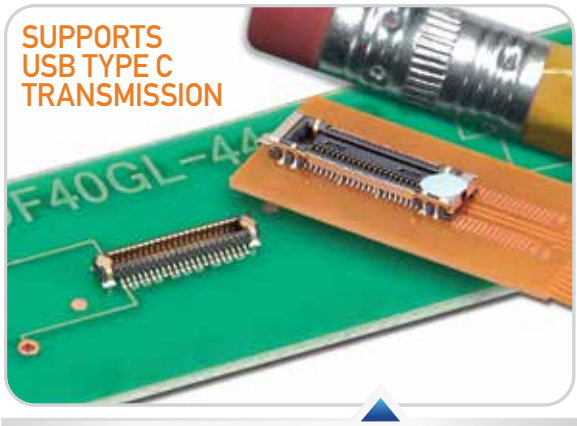
DATA SHEET
from HIROSE ELECTRIC

DF40GL Series

0.4mm Pitch/1.5mm Height, Positive Lock, High Speed Transmission, Shielded FPC to Board Connector



H=1.5MM CONNECTOR
THE WORLD'S FIRST POSITIVE LOCK!

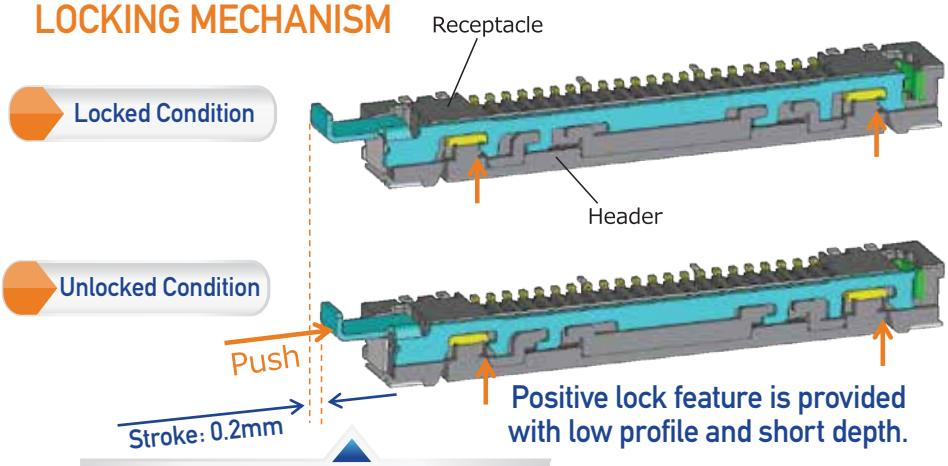
Features:

- Positive lock with blade lock system
- Supports USB 3.1 gen.2 (10Gbps) transmission
- Shielding provides excellent EMI protection & grounding
- Long effective mating length: 0.45mm
- Secure mating with clear tactile click
- Guide ribs provide enhanced self alignment
- RoHS compliant, Halogen-free product*

*This product satisfies halogen free requirements defined as 900ppm maximum bromine, 900ppm maximum chlorine, and 1500ppm maximum total of chlorine and bromine.

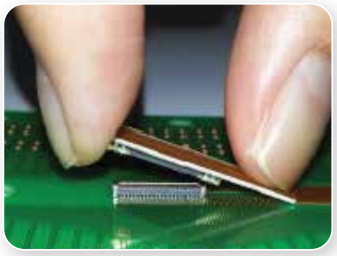
Positive Lock with Blade Lock System

LOCKING MECHANISM



DROP IMPACT-RESISTANT
POSITIVE LOCK

PATENT PENDING

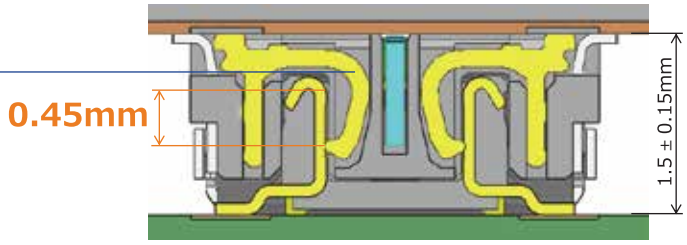


EASY UNLOCKING OPERATION

Easy unlocking by just depressing the lock lever!!

SECURE MATING & CLEAR TACTILE CLICK

World Longest Effective Mating Length



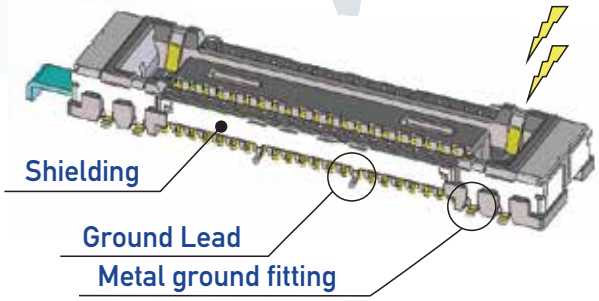
Stamped contact contributes to long effective mating length.

HRS HIROSE ELECTRIC CO., LTD.

Excellent EMI Prevention with Metal Shields

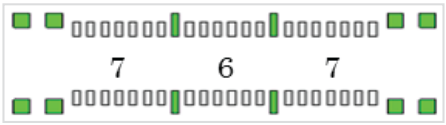
SHIELDING ON RECEPTACLE REDUCES EMI

DF40GL Receptacle

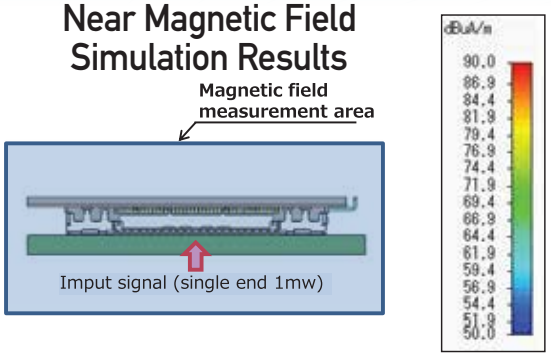


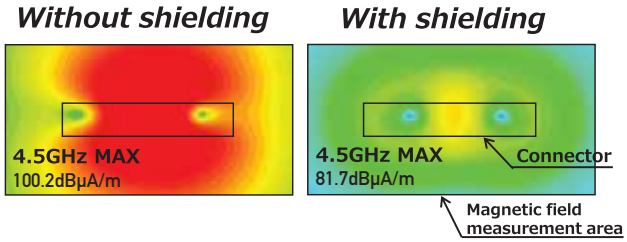
Secure Grounding

Ground contact arrangement - 44pos. (Signal: 40pos., GND: 4pos.)



Near Magnetic Field Simulation Results





100.2dBµA/m 81.7dBµA/m

SHIELDING DESIGN REDUCES MAGNETIC FIELD.

Specifications

MATERIAL AND FINISH		
Component	Material	Finish, Remarks
Housing	LCP*1	UL94V-0, Black
Contact	Phosphor bronze	Gold plating over Nickel under plating
Shielding	Phosphor bronze	Gold plating
Metal fittings lock	Stainless steel	Gold plating
Lock lever	Stainless steel	-

PERFORMANCE CHARACTERISTICS	
Rated Current	0.35A
Rated Voltage	30V AC / DC
Operating Temperature	-55° to +85°* 2
Contact Resistance	90mΩ MAX （20mV AC or 1000Hz)
Withstanding Voltage	100V AC, 1 minute
Insulation Resistance	50MΩ MIN. （100V DC)
Durability	30 times

Varieties: 44 pos. only (Contact our sales representative for future development schedule.)

*1: NOTE: This product satisfies halogen free requirements defined as 900ppm maximum chlorine, 900ppm maximum bromine, and 1500ppm maximum total of chlorine and bromine.

*2: Include the temperature rising by current flow.

For additional information please go to https://www.hirose.com/product/en/products/DF40GL/

Specifications herein are subject to change without notice. Contact Hirose for latest specifications, drawings, or availabilities.