Furukawa Electric Industrial Cable Co., Ltd.

1-9, 5-chome, Higashiyahata, Hiratsuka-city, Kanagawa, Japan

Spec. No. 8GS-060014

STANDARD SPECIFICATION

FOR

TV CAMERA CABLE(2SM-16-37.5)

Furukawa Electric Industrial Cable Co., Ltd.

1. Scope

This specification shall cover the following TV camera cables combined with optic -fibers.

2SM-16-37.5 ： TV camera cable for general use.

2. Constitution

TV camera cables shall be constituted as follows ;

For power supply ： 4 cores 0.52SQ

For data ： 2 SM fibers

For control ： 2 cores 0.18SQ

3. Conditions

(1) Operating temp. Range ：-20℃ ～ +60℃

(2) Storage and transportation temp. Range ：-40℃ ～ +80℃

(3) Bending radius ： Not less than 6 times of cable overall diameter

(4) Allowable tension ： 686N

6. Inspection

Inspection shall be carried out on the following items in accordance with test method of 6.

(1) Appearance

(2) Construction

(3) Conductor resistance

(4) Dielectric strength

(5) Insulation resistance

(6) Transmission loss of optic fiber

7. Packing

Each length of the cables shall be wound on a reel or coiled into a bundle and suita -bly packaged so as not to be damaged in transportation.

8. Marking

8.1 Marking on inner sheath of cable

The following information shall be indelibly marked at suitable intervals on the su -rface of cable.

(1) Symbol (2SM-9.2-37.5)

(2) Manufacturer’s name and /or its mark

8.2 Marking on outer sheath of cable

The following information shall be indelibly marked at suitable intervals on the su -rface of cable.

(1) Symbol (2SM-16-37.5)

(2) Manufacturer's name and /or its mark

8.3 Marking on package

The following information shall be suitably marked on the package.

(1) Symbol (2SM-16-37.5)

(2) Length and quantity

(3) Manufacturer's name and /or its mark

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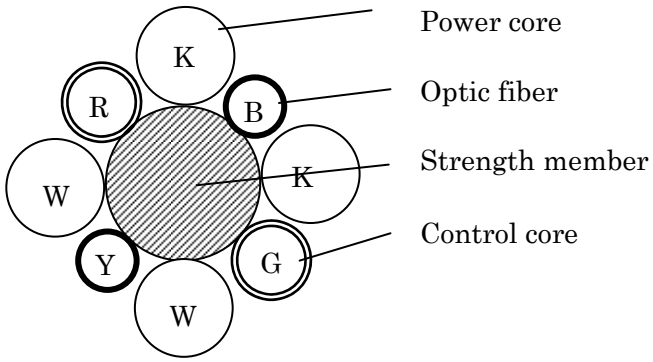
Attached table

Symbol		2SM-16-37.5			
Kind of cores		Power	Control	Optic fiber	Strength member
No. of cores	No.	4	2	2	1
Size of conductor	㎜^{2}	0.52	0.18	-	-
Construction of conductor	No/㎜	21/0.18	7/0.18	-	19/0.36
Diameter of mode field	μm	-	-	9.5±1	-
Cladding diameter	μm	-	-	125±1	-
Approx. diameter of conductor	㎜	0.9	0.55	-	1.8
Nominal thickness of insulation	㎜	0.4	0.3	-	0.35
Approx. core diameter	㎜	1.7	1.2	0.9±0.05	2.5
Approx. thickness of tin-coated annealed copper braid	㎜	0.3			
Nominal thickness of anti-injury inner sheath	㎜	1.2			
Nominal thickness of anti-injury outer sheath	㎜	3.4			
Approx. overall diameter	㎜	16.0±0.5			
Approx. net weight	g/m	270			
Max. conductor resistance (20℃)	Ω/km	37.5	113	-	To be Conducted
AC withstanding voltage	V/1min	1,000	500	-	-
Min. insulation resistance (room temp.)	MΩkm	10,000	10,000	-	-

Core identification

K : Black
W : White(natural)
R : Red
G : Green
B : Blue
Y : Yellow



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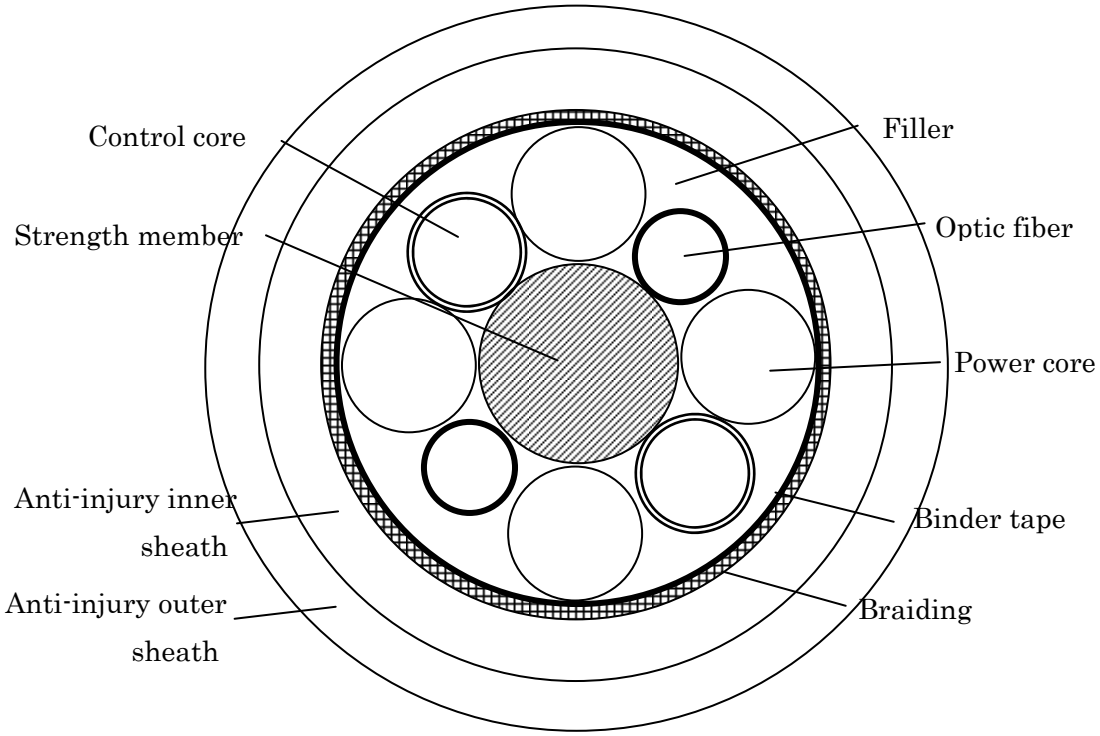
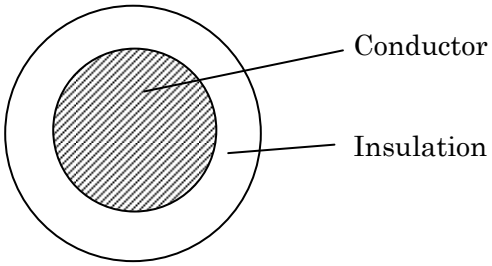
Attached drawing Cross section drawing of 2SM-16-37.5



Cross section drawing of power core,control core and strength member



Cross section drawing of optic fiber